

APPENDIX A

Data Tables

<http://www.epa.gov/oar/aqtrnd97/appenda.pdf>

Table A-1. National Air Quality Trends Statistics for Criteria Pollutants, 1988–1997

| Statistic | # of Sites | Units | Percentile | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-------------------------|------------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Carbon Monoxide | | | | | | | | | | | | | |
| 2nd Max. 8 hr. | 368 | ppm | 95th | 11.1 | 11.1 | 10.6 | 9.9 | 8.5 | 8.0 | 8.1 | 7.6 | 7.4 | 6.8 |
| 2nd Max. 8 hr. | 368 | ppm | 90th | 10.2 | 9.8 | 8.8 | 8.8 | 7.8 | 7.2 | 7.6 | 6.7 | 6.5 | 6.0 |
| 2nd Max. 8 hr. | 368 | ppm | 75th | 7.7 | 7.8 | 7.1 | 7.0 | 6.4 | 5.9 | 6.2 | 5.5 | 5.1 | 4.9 |
| 2nd Max. 8 hr. | 368 | ppm | 50th | 6.0 | 5.9 | 5.4 | 5.2 | 4.8 | 4.7 | 4.9 | 4.2 | 3.9 | 3.8 |
| 2nd Max. 8 hr. | 368 | ppm | 25th | 4.3 | 4.4 | 4.2 | 3.9 | 3.7 | 3.6 | 3.8 | 3.2 | 3.0 | 2.8 |
| 2nd Max. 8 hr. | 368 | ppm | 10th | 3.4 | 3.4 | 3.1 | 3.0 | 2.8 | 2.9 | 2.8 | 2.5 | 2.3 | 2.1 |
| 2nd Max. 8 hr. | 368 | ppm | 5th | 2.8 | 2.8 | 2.5 | 2.3 | 2.3 | 2.2 | 2.2 | 2.3 | 2.0 | 1.8 |
| 2nd Max. 8 hr. | 368 | ppm | Arith. Mean | 6.3 | 6.3 | 5.8 | 5.6 | 5.1 | 4.9 | 5.0 | 4.5 | 4.2 | 3.9 |
| Lead | | | | | | | | | | | | | |
| Max. Qtr. AM | 195 | ppm | 95th | 0.37 | 0.27 | 0.29 | 0.20 | 0.18 | 0.17 | 0.14 | 0.12 | 0.12 | 0.12 |
| Max. Qtr. AM | 195 | ppm | 90th | 0.22 | 0.16 | 0.16 | 0.15 | 0.13 | 0.10 | 0.09 | 0.08 | 0.08 | 0.08 |
| Max. Qtr. AM | 195 | ppm | 75th | 0.13 | 0.11 | 0.09 | 0.07 | 0.06 | 0.06 | 0.05 | 0.05 | 0.04 | 0.04 |
| Max. Qtr. AM | 195 | ppm | 50th | 0.08 | 0.06 | 0.05 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 |
| Max. Qtr. AM | 195 | ppm | 25th | 0.04 | 0.04 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 |
| Max. Qtr. AM | 195 | ppm | 10th | 0.03 | 0.03 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Max. Qtr. AM | 195 | ppm | 5th | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 |
| Max. Qtr. AM | 195 | ppm | Arith. Mean | 0.12 | 0.09 | 0.09 | 0.07 | 0.06 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 |
| Nitrogen Dioxide | | | | | | | | | | | | | |
| Arith. Mean | 224 | ppm | 95th | 0.044 | 0.043 | 0.040 | 0.043 | 0.038 | 0.036 | 0.040 | 0.039 | 0.037 | 0.034 |
| Arith. Mean | 224 | ppm | 90th | 0.036 | 0.035 | 0.034 | 0.033 | 0.032 | 0.032 | 0.032 | 0.031 | 0.031 | 0.029 |
| Arith. Mean | 224 | ppm | 75th | 0.027 | 0.027 | 0.025 | 0.025 | 0.024 | 0.024 | 0.025 | 0.023 | 0.024 | 0.023 |
| Arith. Mean | 224 | ppm | 50th | 0.020 | 0.020 | 0.019 | 0.019 | 0.018 | 0.018 | 0.019 | 0.018 | 0.018 | 0.018 |
| Arith. Mean | 224 | ppm | 25th | 0.014 | 0.013 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.011 |
| Arith. Mean | 224 | ppm | 10th | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.007 | 0.006 | 0.007 | 0.006 |
| Arith. Mean | 224 | ppm | 5th | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Arith. Mean | 224 | ppm | Arith. Mean | 0.021 | 0.021 | 0.020 | 0.020 | 0.019 | 0.019 | 0.020 | 0.019 | 0.018 | 0.018 |
| Ozone | | | | | | | | | | | | | |
| 2nd Max. 1-hr | 660 | ppm | 95th | 0.200 | 0.177 | 0.170 | 0.170 | 0.160 | 0.156 | 0.151 | 0.152 | 0.144 | 0.144 |
| 2nd Max. 1-hr | 660 | ppm | 90th | 0.178 | 0.150 | 0.147 | 0.150 | 0.131 | 0.138 | 0.132 | 0.139 | 0.127 | 0.131 |
| 2nd Max. 1-hr | 660 | ppm | 75th | 0.147 | 0.124 | 0.120 | 0.123 | 0.112 | 0.120 | 0.117 | 0.123 | 0.115 | 0.116 |
| 2nd Max. 1-hr | 660 | ppm | 50th | 0.124 | 0.106 | 0.107 | 0.107 | 0.099 | 0.104 | 0.104 | 0.110 | 0.103 | 0.103 |
| 2nd Max. 1-hr | 660 | ppm | 25th | 0.105 | 0.095 | 0.095 | 0.095 | 0.090 | 0.091 | 0.092 | 0.098 | 0.092 | 0.090 |
| 2nd Max. 1-hr | 660 | ppm | 10th | 0.090 | 0.085 | 0.083 | 0.081 | 0.082 | 0.080 | 0.082 | 0.085 | 0.083 | 0.080 |
| 2nd Max. 1-hr | 660 | ppm | 5th | 0.082 | 0.080 | 0.074 | 0.075 | 0.075 | 0.074 | 0.076 | 0.077 | 0.077 | 0.075 |
| 2nd Max. 1-hr | 660 | ppm | Arith. Mean | 0.130 | 0.114 | 0.112 | 0.113 | 0.105 | 0.108 | 0.107 | 0.112 | 0.105 | 0.105 |
| 4th Max. 8-hr | 660 | ppm | 95th | 0.136 | 0.119 | 0.117 | 0.116 | 0.107 | 0.110 | 0.107 | 0.113 | 0.103 | 0.105 |
| 4th Max. 8-hr | 660 | ppm | 90th | 0.126 | 0.105 | 0.106 | 0.110 | 0.097 | 0.101 | 0.099 | 0.107 | 0.097 | 0.101 |
| 4th Max. 8-hr | 660 | ppm | 75th | 0.112 | 0.093 | 0.094 | 0.097 | 0.087 | 0.091 | 0.091 | 0.096 | 0.090 | 0.091 |
| 4th Max. 8-hr | 660 | ppm | 50th | 0.098 | 0.083 | 0.083 | 0.085 | 0.079 | 0.081 | 0.082 | 0.088 | 0.083 | 0.082 |
| 4th Max. 8-hr | 660 | ppm | 25th | 0.082 | 0.075 | 0.075 | 0.073 | 0.073 | 0.073 | 0.074 | 0.077 | 0.075 | 0.073 |
| 4th Max. 8-hr | 660 | ppm | 10th | 0.072 | 0.068 | 0.066 | 0.065 | 0.066 | 0.063 | 0.067 | 0.067 | 0.067 | 0.065 |
| 4th Max. 8-hr | 660 | ppm | 5th | 0.065 | 0.061 | 0.060 | 0.059 | 0.061 | 0.058 | 0.060 | 0.060 | 0.062 | 0.059 |
| 4th Max. 8-hr | 660 | ppm | Arith. Mean | 0.098 | 0.086 | 0.085 | 0.087 | 0.082 | 0.082 | 0.083 | 0.087 | 0.083 | 0.082 |

Table A-1. National Air Quality Trends Statistics for Criteria Pollutants, 1988–1997 (continued)

| Statistic | # of Sites | Units | Percentile | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-------------------------------|------------|-------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <i>PM₁₀</i> | | | | | | | | | | | | | |
| Annual Avg. | 845 | µg/m ³ | 95th | 52.2 | 52.3 | 46.0 | 45.9 | 42.0 | 41.5 | 39.5 | 39.3 | 38.2 | 37.8 |
| Annual Avg. | 845 | µg/m ³ | 90th | 43.9 | 43.9 | 39.6 | 39.4 | 36.4 | 36.5 | 36.7 | 35.0 | 33.7 | 33.0 |
| Annual Avg. | 845 | µg/m ³ | 75th | 37.6 | 36.8 | 34.4 | 33.5 | 31.3 | 30.3 | 30.7 | 29.3 | 27.9 | 27.6 |
| Annual Avg. | 845 | µg/m ³ | 50th | 30.9 | 30.3 | 28.2 | 28.2 | 25.8 | 25.5 | 25.6 | 24.4 | 23.3 | 23.2 |
| Annual Avg. | 845 | µg/m ³ | 25th | 25.9 | 25.5 | 23.4 | 23.6 | 22.0 | 21.0 | 21.1 | 20.0 | 19.4 | 19.5 |
| Annual Avg. | 845 | µg/m ³ | 10th | 20.6 | 20.5 | 19.0 | 18.4 | 17.8 | 16.8 | 16.8 | 15.8 | 16.1 | 15.8 |
| Annual Avg. | 845 | µg/m ³ | 5th | 17.5 | 17.5 | 16.2 | 15.1 | 14.2 | 13.5 | 13.2 | 12.7 | 13.2 | 12.6 |
| Annual Avg. | 845 | µg/m ³ | Arith. Mean | 32.4 | 32.1 | 29.5 | 29.2 | 26.9 | 26.2 | 26.2 | 25.1 | 24.2 | 24.0 |
| 99th Pctile | 845 | µg/m ³ | 95th | 165.0 | 167.0 | 154.0 | 154.0 | 136.0 | 126.0 | 123 | 124.0 | 115.0 | 111.0 |
| 99th Pctile | 845 | µg/m ³ | 90th | 129.0 | 131.0 | 124.0 | 127.0 | 110.0 | 107.0 | 108 | 103.0 | 96.0 | 95.0 |
| 99th Pctile | 845 | µg/m ³ | 75th | 98.0 | 96.0 | 95.0 | 91.0 | 84.0 | 83.0 | 86 | 77.0 | 77.0 | 76.0 |
| 99th Pctile | 845 | µg/m ³ | 50th | 77.0 | 77.0 | 75.0 | 72.0 | 66.0 | 67.0 | 65 | 64.0 | 61.0 | 59.0 |
| 99th Pctile | 845 | µg/m ³ | 25th | 59.0 | 60.0 | 59.0 | 58.0 | 55.0 | 56.0 | 52 | 52.0 | 50.0 | 48.0 |
| 99th Pctile | 845 | µg/m ³ | 10th | 45.0 | 48.0 | 48.0 | 48.0 | 45.0 | 44.0 | 42 | 41.0 | 40.0 | 39.0 |
| 99th Pctile | 845 | µg/m ³ | 5th | 36.0 | 41.0 | 43.0 | 43.0 | 38.0 | 37.0 | 37 | 36.0 | 35.0 | 33.0 |
| 99th Pctile | 845 | µg/m ³ | Arith. Mean | 85.8 | 88.6 | 85.3 | 82.1 | 74.5 | 73.6 | 71 | 69.8 | 66.2 | 64.2 |
| <i>Sulfur Dioxide</i> | | | | | | | | | | | | | |
| Arith. Mean | 486 | ppm | 95th | 0.0195 | 0.0182 | 0.0165 | 0.0161 | 0.0154 | 0.0153 | 0.0138 | 0.0115 | 0.0113 | 0.0106 |
| Arith. Mean | 486 | ppm | 90th | 0.0154 | 0.0152 | 0.0144 | 0.0136 | 0.0128 | 0.0125 | 0.0122 | 0.0100 | 0.0097 | 0.0089 |
| Arith. Mean | 486 | ppm | 75th | 0.0118 | 0.0115 | 0.0107 | 0.0099 | 0.0095 | 0.0093 | 0.0090 | 0.0074 | 0.0073 | 0.0070 |
| Arith. Mean | 486 | ppm | 50th | 0.0082 | 0.0080 | 0.0076 | 0.0076 | 0.0068 | 0.0067 | 0.0065 | 0.0051 | 0.0053 | 0.0051 |
| Arith. Mean | 486 | ppm | 25th | 0.0051 | 0.0049 | 0.0044 | 0.0046 | 0.0042 | 0.0039 | 0.0037 | 0.0033 | 0.0033 | 0.0031 |
| Arith. Mean | 486 | ppm | 10th | 0.0023 | 0.0024 | 0.0022 | 0.0022 | 0.0020 | 0.0023 | 0.0021 | 0.0018 | 0.0019 | 0.0019 |
| Arith. Mean | 486 | ppm | 5th | 0.0017 | 0.0016 | 0.0015 | 0.0015 | 0.0014 | 0.0015 | 0.0015 | 0.0014 | 0.0014 | 0.0014 |
| Arith. Mean | 486 | ppm | Arith. Mean | 0.0089 | 0.0087 | 0.0081 | 0.0079 | 0.0073 | 0.0072 | 0.0069 | 0.0056 | 0.0056 | 0.0054 |
| 2nd Max. 24-hr | 487 | ppm | 95th | 0.0960 | 0.0960 | 0.0850 | 0.0720 | 0.074 | 0.0720 | 0.0720 | 0.0570 | 0.0600 | 0.0520 |
| 2nd Max. 24-hr | 487 | ppm | 90th | 0.0740 | 0.0760 | 0.0660 | 0.0610 | 0.061 | 0.0580 | 0.0620 | 0.0480 | 0.0470 | 0.0440 |
| 2nd Max. 24-hr | 487 | ppm | 75th | 0.0560 | 0.0530 | 0.0500 | 0.0450 | 0.044 | 0.0420 | 0.0450 | 0.0330 | 0.0330 | 0.0330 |
| 2nd Max. 24-hr | 487 | ppm | 50th | 0.0390 | 0.0390 | 0.0340 | 0.0320 | 0.031 | 0.0280 | 0.0330 | 0.0220 | 0.0230 | 0.0230 |
| 2nd Max. 24-hr | 487 | ppm | 25th | 0.0250 | 0.0240 | 0.0210 | 0.0210 | 0.019 | 0.0190 | 0.0190 | 0.0160 | 0.0150 | 0.0140 |
| 2nd Max. 24-hr | 487 | ppm | 10th | 0.0120 | 0.0120 | 0.0100 | 0.0100 | 0.010 | 0.0100 | 0.0090 | 0.0080 | 0.0090 | 0.0080 |
| 2nd Max. 24-hr | 487 | ppm | 5th | 0.0070 | 0.0070 | 0.0060 | 0.0070 | 0.006 | 0.0055 | 0.0050 | 0.0050 | 0.0050 | 0.0050 |
| 2nd Max. 24-hr | 487 | ppm | Arith. Mean | 0.0437 | 0.0419 | 0.0382 | 0.0352 | 0.034 | 0.0329 | 0.0343 | 0.0261 | 0.0266 | 0.0253 |

Table A-2. National Carbon Monoxide Emissions Estimates, 1988–1997 (thousand short tons)

| Source Category | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------------------------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| FUEL COMBUSTION | 7,373 | 7,443 | 5,510 | 5,856 | 6,154 | 5,585 | 5,519 | 5,934 | 5,980 | 4,817 |
| Electric Utilities | 314 | 321 | 363 | 349 | 350 | 362 | 370 | 372 | 394 | 406 |
| <i>Coal</i> | 230 | 233 | 234 | 234 | 236 | 246 | 247 | 250 | 248 | 254 |
| <i>Oil</i> | 25 | 26 | 20 | 19 | 15 | 16 | 15 | 10 | 11 | 12 |
| <i>Gas</i> | 48 | 51 | 51 | 51 | 51 | 49 | 53 | 55 | 76 | 79 |
| <i>Internal Combustion</i> | 11 | 11 | 57 | 45 | 47 | 51 | 55 | 58 | 59 | 62 |
| Industrial | 669 | 672 | 879 | 920 | 955 | 1,043 | 1,041 | 1,056 | 1,072 | 1,110 |
| <i>Coal</i> | 87 | 87 | 105 | 101 | 102 | 101 | 100 | 98 | 99 | 100 |
| <i>Oil</i> | 46 | 46 | 74 | 60 | 64 | 66 | 66 | 71 | 72 | 73 |
| <i>Gas</i> | 265 | 271 | 226 | 284 | 300 | 322 | 337 | 345 | 348 | 362 |
| <i>Other</i> | 173 | 173 | 279 | 267 | 264 | 286 | 287 | 297 | 306 | 318 |
| <i>Internal Combustion</i> | 98 | 96 | 195 | 208 | 227 | 268 | 251 | 245 | 247 | 257 |
| Other | 6,390 | 6,450 | 4,268 | 4,587 | 4,849 | 4,180 | 4,108 | 4,506 | 4,513 | 3,301 |
| <i>Residential Wood</i> | 6,086 | 6,161 | 3,781 | 4,090 | 4,332 | 3,679 | 3,607 | 3,999 | 3,993 | 2,778 |
| <i>Other</i> | 303 | 288 | 488 | 497 | 517 | 502 | 502 | 506 | 520 | 522 |
| INDUSTRIAL PROCESSES | 7,034 | 7,013 | 5,852 | 5,740 | 5,683 | 5,898 | 5,839 | 5,791 | 5,816 | 6,052 |
| Chemical & Allied Processing | 1,917 | 1,925 | 1,183 | 1,127 | 1,112 | 1,093 | 1,171 | 1,223 | 1,222 | 1,287 |
| Metals Processing | 2,101 | 2,132 | 2,640 | 2,571 | 2,496 | 2,536 | 2,475 | 2,380 | 2,378 | 2,465 |
| Petroleum & Related Industries | 441 | 436 | 332 | 345 | 371 | 371 | 338 | 348 | 348 | 364 |
| Other Industrial Processes | 711 | 716 | 537 | 548 | 544 | 594 | 600 | 624 | 635 | 663 |
| Solvent Utilization | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 6 |
| Storage & Transport | 56 | 55 | 76 | 28 | 17 | 51 | 24 | 25 | 25 | 26 |
| Waste Disposal & Recycling | 1,806 | 1,747 | 1,079 | 1,116 | 1,138 | 1,248 | 1,225 | 1,185 | 1,203 | 1,242 |
| TRANSPORTATION | 85,779 | 80,870 | 73,224 | 77,443 | 75,511 | 76,030 | 77,883 | 70,377 | 69,353 | 67,014 |
| On-Road Vehicles | 71,081 | 66,050 | 57,848 | 62,074 | 59,859 | 60,202 | 61,833 | 54,106 | 52,944 | 50,257 |
| Non-Road Sources | 14,698 | 14,820 | 15,376 | 15,368 | 15,652 | 15,828 | 16,050 | 16,271 | 16,409 | 16,755 |
| MISCELLANEOUS | 15,895 | 8,154 | 11,208 | 8,751 | 7,052 | 7,013 | 9,613 | 7,049 | 9,462 | 9,568 |
| Fires | 15,895 | 8,154 | 11,176 | 8,724 | 7,022 | 6,979 | 9,585 | 7,021 | 9,435 | 9,540 |
| Other | NA | NA | 32 | 28 | 30 | 34 | 28 | 28 | 27 | 28 |
| TOTAL ALL SOURCES | 116,081 | 103,480 | 95,794 | 97,790 | 94,400 | 94,526 | 98,854 | 89,151 | 90,611 | 87,451 |

Note: Some columns may not sum to totals due to rounding.

Table A-3. National Lead Emissions Estimates, 1988–1997 (short tons)

| Source Category | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| FUEL COMBUSTION | 511 | 505 | 500 | 495 | 490 | 495 | 494 | 488 | 493 | 496 |
| Electric Utilities | 66 | 67 | 64 | 61 | 59 | 61 | 61 | 57 | 61 | 64 |
| <i>Coal</i> | 46 | 46 | 46 | 46 | 47 | 49 | 49 | 50 | 52 | 53 |
| <i>Oil</i> | 20 | 21 | 18 | 15 | 12 | 12 | 12 | 7 | 8 | 11 |
| Industrial | 19 | 18 | 18 | 18 | 17 | 19 | 18 | 17 | 16 | 17 |
| <i>Coal</i> | 14 | 14 | 14 | 15 | 14 | 14 | 14 | 14 | 13 | 13 |
| <i>Oil</i> | 5 | 4 | 4 | 3 | 3 | 5 | 4 | 3 | 3 | 4 |
| Other | 426 | 420 | 418 | 416 | 414 | 415 | 415 | 414 | 416 | 415 |
| <i>Commercial/Institutional Coal</i> | 5 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 5 | 5 |
| <i>Commercial/Institutional Oil</i> | 5 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 |
| <i>Misc. Fuel Comb. (except residential)</i> | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| <i>Residential Other</i> | 16 | 12 | 10 | 9 | 7 | 8 | 8 | 8 | 7 | 7 |
| INDUSTRIAL PROCESSES | 3,090 | 3,161 | 3,278 | 3,081 | 2,734 | 2,869 | 3,005 | 2,873 | 2,892 | 2,897 |
| Chemical & Allied Processing | 136 | 135 | 136 | 132 | 93 | 92 | 96 | 163 | 167 | 159 |
| Metals Processing | 1,965 | 2,088 | 2,169 | 1,975 | 1,773 | 1,899 | 2,027 | 2,048 | 2,052 | 2,038 |
| Other Industrial Processes | 172 | 173 | 169 | 167 | 56 | 54 | 53 | 58 | 51 | 54 |
| Waste Disposal & Recycling | 817 | 765 | 804 | 807 | 812 | 824 | 829 | 604 | 622 | 646 |
| TRANSPORTATION | 3,452 | 1,802 | 1,197 | 592 | 584 | 547 | 544 | 563 | 525 | 522 |
| On-Road Vehicles | 2,566 | 982 | 421 | 18 | 19 | 19 | 19 | 19 | 20 | 19 |
| Non-Road Sources | 886 | 820 | 776 | 574 | 565 | 528 | 525 | 544 | 505 | 503 |
| TOTAL ALL SOURCES | 7,053 | 5,468 | 4,975 | 4,168 | 3,808 | 3,911 | 4,043 | 3,924 | 3,910 | 3,915 |

Note: Some columns may not sum to totals due to rounding.

Table A-4. National Nitrogen Oxides Emissions Estimates, 1988–1997 (thousand short tons)

| Source Category | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| FUEL COMBUSTION | 10,472 | 10,538 | 10,895 | 10,779 | 10,928 | 11,111 | 11,015 | 10,828 | 10,519 | 10,724 |
| Electric Utilities | 6,544 | 6,593 | 6,663 | 6,519 | 6,504 | 6,651 | 6,565 | 6,385 | 6,060 | 6,178 |
| <i>Coal</i> | 5,666 | 5,676 | 5,642 | 5,559 | 5,579 | 5,744 | 5,636 | 5,579 | 5,542 | 5,588 |
| <i>Oil</i> | 272 | 285 | 221 | 212 | 170 | 180 | 163 | 96 | 103 | 131 |
| <i>Gas</i> | 556 | 582 | 565 | 580 | 579 | 551 | 591 | 562 | 264 | 286 |
| <i>Internal Combustion</i> | 50 | 49 | 235 | 168 | 175 | 176 | 175 | 148 | 151 | 159 |
| Industrial | 3,188 | 3,209 | 3,035 | 2,979 | 3,071 | 3,151 | 3,147 | 3,145 | 3,170 | 3,270 |
| <i>Coal</i> | 617 | 615 | 585 | 570 | 574 | 589 | 602 | 597 | 599 | 614 |
| <i>Oil</i> | 296 | 294 | 265 | 237 | 244 | 245 | 241 | 247 | 246 | 240 |
| <i>Gas</i> | 1,584 | 1,625 | 1,182 | 1,250 | 1,301 | 1,330 | 1,333 | 1,324 | 1,336 | 1,385 |
| <i>Other</i> | 121 | 120 | 131 | 129 | 126 | 124 | 124 | 123 | 125 | 130 |
| <i>Internal Combustion</i> | 569 | 556 | 874 | 793 | 825 | 863 | 846 | 854 | 864 | 902 |
| Other | 740 | 736 | 1,196 | 1,281 | 1,353 | 1,309 | 1,303 | 1,298 | 1,289 | 1,276 |
| <i>Commercial/Institutional Coal</i> | 38 | 38 | 40 | 36 | 38 | 40 | 40 | 38 | 38 | 40 |
| <i>Commercial/Institutional Oil</i> | 117 | 106 | 97 | 88 | 93 | 93 | 95 | 103 | 102 | 107 |
| <i>Commercial/Institutional Gas</i> | 157 | 159 | 200 | 210 | 225 | 232 | 237 | 231 | 234 | 241 |
| <i>Misc. Fuel Comb. (Except Residential)</i> | 11 | 11 | 34 | 32 | 28 | 31 | 31 | 30 | 29 | 30 |
| <i>Residential Wood</i> | 74 | 75 | 46 | 50 | 53 | 45 | 44 | 49 | 48 | 34 |
| <i>Residential Other</i> | 343 | 347 | 780 | 865 | 916 | 867 | 857 | 847 | 838 | 825 |
| INDUSTRIAL PROCESSES | 860 | 852 | 892 | 816 | 857 | 861 | 878 | 873 | 879 | 917 |
| Chemical & Allied Processing | 273 | 273 | 168 | 165 | 163 | 155 | 160 | 158 | 159 | 167 |
| Metals Processing | 82 | 83 | 97 | 76 | 81 | 83 | 91 | 98 | 98 | 102 |
| Petroleum & Related Industries | 100 | 97 | 153 | 121 | 148 | 123 | 117 | 110 | 110 | 115 |
| Other Industrial Processes | 315 | 311 | 378 | 352 | 361 | 370 | 389 | 399 | 403 | 421 |
| Solvent Utilization | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Storage & Transport | 2 | 2 | 3 | 6 | 5 | 5 | 5 | 6 | 6 | 6 |
| Waste Disposal & Recycling | 85 | 84 | 91 | 95 | 96 | 123 | 114 | 99 | 100 | 103 |
| TRANSPORTATION | 11,659 | 11,731 | 11,278 | 11,639 | 11,750 | 11,849 | 12,069 | 11,830 | 11,650 | 11,595 |
| On-Road Vehicles | 7,661 | 7,682 | 7,041 | 7,374 | 7,440 | 7,510 | 7,672 | 7,323 | 7,171 | 7,035 |
| Non-Road Sources | 3,998 | 4,049 | 4,237 | 4,265 | 4,310 | 4,339 | 4,397 | 4,507 | 4,479 | 4,560 |
| MISCELLANEOUS | 727 | 293 | 371 | 286 | 254 | 225 | 383 | 237 | 343 | 346 |
| TOTAL ALL SOURCES | 23,718 | 23,414 | 23,436 | 23,520 | 23,789 | 24,046 | 24,345 | 23,768 | 23,391 | 23,582 |

Note: Some columns may not sum to totals due to rounding.

Table A-5. National Volatile Organic Compounds Emissions Estimates, 1988–1997 (thousand short tons)

| Source Category | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| FUEL COMBUSTION | 1,360 | 1,372 | 1,005 | 1,075 | 1,114 | 993 | 989 | 1,073 | 1,079 | 861 |
| Electric Utilities | 37 | 37 | 47 | 44 | 44 | 45 | 45 | 44 | 49 | 51 |
| <i>Coal</i> | 27 | 27 | 27 | 27 | 27 | 29 | 29 | 29 | 28 | 29 |
| <i>Oil</i> | 7 | 7 | 6 | 5 | 4 | 4 | 4 | 3 | 3 | 3 |
| <i>Gas</i> | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 8 |
| <i>Internal Combustion</i> | 1 | 1 | 12 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Industrial | 136 | 134 | 182 | 196 | 187 | 186 | 196 | 206 | 208 | 217 |
| <i>Coal</i> | 7 | 7 | 7 | 6 | 7 | 6 | 8 | 6 | 6 | 6 |
| <i>Oil</i> | 16 | 16 | 12 | 11 | 12 | 12 | 12 | 12 | 12 | 12 |
| <i>Gas</i> | 61 | 61 | 58 | 60 | 52 | 51 | 63 | 73 | 73 | 77 |
| <i>Other</i> | 36 | 36 | 51 | 51 | 49 | 51 | 50 | 50 | 51 | 53 |
| <i>Internal Combustion</i> | 15 | 15 | 54 | 68 | 66 | 66 | 64 | 65 | 66 | 69 |
| Other | 1,188 | 1,200 | 776 | 835 | 884 | 762 | 748 | 823 | 822 | 593 |
| <i>Residential Wood</i> | 1,155 | 1,169 | 718 | 776 | 822 | 698 | 684 | 759 | 758 | 527 |
| <i>Other</i> | 33 | 31 | 58 | 59 | 62 | 64 | 63 | 64 | 64 | 9 |
| INDUSTRIAL PROCESSES | 10,853 | 10,755 | 10,000 | 10,178 | 10,380 | 10,578 | 10,738 | 10,780 | 9,482 | 9,836 |
| Chemical & Allied Processing | 982 | 980 | 634 | 710 | 715 | 701 | 691 | 660 | 436 | 458 |
| Metals Processing | 74 | 74 | 122 | 123 | 124 | 124 | 126 | 125 | 70 | 73 |
| Petroleum & Related Industries | 645 | 639 | 612 | 640 | 632 | 649 | 647 | 642 | 517 | 538 |
| Other Industrial Processes | 408 | 403 | 401 | 391 | 414 | 442 | 438 | 450 | 439 | 458 |
| Solvent Utilization | 5,945 | 5,964 | 5,750 | 5,782 | 5,901 | 6,016 | 6,162 | 6,183 | 6,273 | 6,483 |
| Storage & Transport | 1,842 | 1,753 | 1,495 | 1,532 | 1,583 | 1,600 | 1,629 | 1,652 | 1,312 | 1,377 |
| Waste Disposal & Recycling | 959 | 941 | 986 | 999 | 1,010 | 1,046 | 1,046 | 1,067 | 433 | 449 |
| TRANSPORTATION | 10,583 | 9,506 | 8,765 | 8,965 | 8,569 | 8,619 | 8,940 | 8,106 | 7,899 | 7,660 |
| On-Road Vehicles | 8,290 | 7,192 | 6,313 | 6,499 | 6,072 | 6,103 | 6,401 | 5,701 | 5,502 | 5,230 |
| Non-Road Sources | 2,293 | 2,314 | 2,452 | 2,466 | 2,498 | 2,516 | 2,538 | 2,405 | 2,397 | 2,430 |
| MISCELLANEOUS | 1,231 | 642 | 1,164 | 845 | 579 | 641 | 798 | 599 | 846 | 858 |
| Other Combustion | 1,230 | 641 | 1,064 | 756 | 485 | 535 | 710 | 511 | 761 | 770 |
| <i>Fires</i> | 1,230 | 641 | 1,061 | 753 | 482 | 532 | 707 | 508 | 758 | 767 |
| <i>Other</i> | NA | NA | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Other | 1 | 1 | 100 | 89 | 94 | 105 | 88 | 88 | 85 | 87 |
| TOTAL ALL SOURCES | 24,027 | 22,274 | 20,935 | 21,063 | 20,642 | 20,830 | 21,465 | 20,558 | 19,306 | 19,214 |

Note: Some columns may not sum to totals due to rounding.

Table A-6. National PM₁₀ Emissions Estimates, 1988–1997 (thousand short tons)

| Source Category | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| FUEL COMBUSTION | 1,381 | 1,382 | 1,196 | 1,147 | 1,184 | 1,124 | 1,113 | 1,179 | 1,192 | 1,101 |
| Electric Utilities | 276 | 271 | 295 | 257 | 257 | 279 | 273 | 268 | 288 | 290 |
| <i>Coal</i> | 261 | 255 | 265 | 232 | 234 | 253 | 246 | 244 | 264 | 265 |
| <i>Oil</i> | 11 | 12 | 9 | 10 | 7 | 9 | 8 | 5 | 5 | 6 |
| <i>Gas</i> | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| <i>Internal Combustion</i> | 3 | 3 | 20 | 15 | 16 | 17 | 17 | 18 | 18 | 19 |
| Industrial | 243 | 243 | 270 | 233 | 244 | 257 | 270 | 302 | 306 | 314 |
| <i>Coal</i> | 70 | 70 | 84 | 72 | 74 | 71 | 70 | 70 | 71 | 72 |
| <i>Oil</i> | 48 | 48 | 52 | 44 | 45 | 45 | 44 | 49 | 50 | 48 |
| <i>Gas</i> | 45 | 44 | 41 | 34 | 40 | 43 | 43 | 45 | 45 | 47 |
| <i>Other</i> | 79 | 78 | 87 | 72 | 74 | 86 | 74 | 73 | 75 | 78 |
| <i>Internal Combustion</i> | 3 | 3 | 6 | 10 | 11 | 12 | 38 | 64 | 65 | 68 |
| Other | 862 | 869 | 631 | 657 | 683 | 588 | 570 | 610 | 598 | 497 |
| <i>Residential Wood</i> | 807 | 817 | 501 | 535 | 558 | 464 | 446 | 484 | 472 | 368 |
| <i>Other</i> | 55 | 52 | 130 | 122 | 124 | 124 | 125 | 126 | 126 | 129 |
| INDUSTRIAL PROCESSES | 1,294 | 1,276 | 1,306 | 1,264 | 1,269 | 1,240 | 1,219 | 1,231 | 1,232 | 1,277 |
| Chemical & Allied Processing | 62 | 63 | 77 | 68 | 71 | 66 | 76 | 67 | 67 | 70 |
| Metals Processing | 208 | 211 | 214 | 251 | 250 | 181 | 184 | 212 | 211 | 220 |
| Petroleum & Related Industries | 60 | 58 | 55 | 43 | 43 | 38 | 38 | 40 | 40 | 41 |
| Other Industrial Processes | 601 | 591 | 583 | 520 | 506 | 501 | 495 | 511 | 510 | 530 |
| Solvent Utilization | 2 | 2 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| Storage & Transport | 101 | 101 | 102 | 101 | 117 | 114 | 106 | 109 | 109 | 114 |
| Waste Disposal & Recycling | 259 | 251 | 271 | 276 | 278 | 334 | 313 | 287 | 290 | 296 |
| TRANSPORTATION | 852 | 849 | 831 | 841 | 835 | 806 | 802 | 751 | 733 | 734 |
| On-Road Vehicles | 369 | 367 | 336 | 349 | 343 | 321 | 320 | 293 | 274 | 268 |
| Non-Road Sources | 483 | 482 | 495 | 491 | 492 | 485 | 481 | 457 | 459 | 466 |
| TOTAL ALL SOURCES | 3,527 | 3,507 | 3,333 | 3,252 | 3,288 | 3,170 | 3,134 | 3,161 | 3,157 | 3,112 |

Table A-7. Miscellaneous and Natural Particulate Matter Emissions Estimates, 1988–1997 (thousand short tons)

| Source Category | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| MISCELLANEOUS | 39,445 | 37,461 | 24,420 | 24,122 | 23,866 | 24,197 | 25,462 | 22,453 | 24,715 | 25,152 |
| Agriculture & Forestry | 7,453 | 7,320 | 5,146 | 5,106 | 4,909 | 4,475 | 4,690 | 4,661 | 4,708 | 4,707 |
| Other Combustion | 1,704 | 912 | 1,203 | 941 | 785 | 768 | 1,048 | 778 | 1,004 | 1,015 |
| <i>Fires</i> | 1,645 | 853 | 1,158 | 896 | 739 | 722 | 1,002 | 732 | 978 | 989 |
| <i>Other</i> | 59 | 59 | 45 | 45 | 46 | 46 | 46 | 46 | 26 | 26 |
| Cooling Towers | NA | NA | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Fugitive Dust | 30,287 | 29,229 | 18,069 | 18,076 | 18,171 | 18,954 | 19,722 | 17,013 | 19,002 | 19,430 |
| <i>Wind Erosion</i> | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| <i>Unpaved Roads</i> | 12,379 | 11,798 | 11,234 | 11,206 | 10,918 | 11,430 | 11,370 | 10,362 | 12,060 | 12,305 |
| <i>Paved Roads</i> | 5,900 | 5,769 | 2,248 | 2,399 | 2,423 | 2,462 | 2,538 | 2,409 | 2,390 | 2,515 |
| <i>Construction</i> | 11,662 | 11,269 | 4,249 | 4,092 | 4,460 | 4,651 | 5,245 | 3,654 | 3,950 | 4,022 |
| <i>Other</i> | 346 | 392 | 336 | 377 | 369 | 409 | 569 | 586 | 602 | 587 |
| NAT. SOURCES (wind erosion) | 18,110 | 12,101 | 2,092 | 2,077 | 2,227 | 509 | 2,160 | 1,146 | 5,316 | 5,316 |
| TOTAL ALL SOURCES | 57,555 | 49,562 | 26,512 | 26,199 | 26,093 | 24,706 | 27,622 | 23,599 | 30,031 | 30,468 |

Note: Some columns may not sum to totals due to rounding.

Table A-8. National Sulfur Dioxide Emissions Estimates, 1988–1997 (thousand short tons)

| Source Category | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| FUEL COMBUSTION | 19,758 | 19,923 | 20,290 | 19,795 | 19,492 | 19,244 | 18,886 | 16,229 | 16,814 | 17,260 |
| Electric Utilities | 15,987 | 16,215 | 15,909 | 15,784 | 15,416 | 15,189 | 14,889 | 12,080 | 12,632 | 13,082 |
| <i>Coal</i> | 15,221 | 15,404 | 15,220 | 15,087 | 14,824 | 14,527 | 14,313 | 11,603 | 12,137 | 12,529 |
| <i>Oil</i> | 734 | 779 | 639 | 652 | 546 | 612 | 522 | 413 | 436 | 486 |
| <i>Gas</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 2 | 4 |
| <i>Internal Combustion</i> | 31 | 30 | 49 | 45 | 46 | 49 | 53 | 55 | 57 | 61 |
| Industrial | 3,111 | 3,086 | 3,550 | 3,256 | 3,292 | 3,284 | 3,218 | 3,357 | 3,399 | 3,365 |
| <i>Coal</i> | 1,856 | 1,840 | 1,914 | 1,805 | 1,783 | 1,763 | 1,740 | 1,728 | 1,762 | 1,769 |
| <i>Oil</i> | 806 | 812 | 927 | 779 | 801 | 809 | 777 | 912 | 918 | 847 |
| <i>Gas</i> | 360 | 346 | 543 | 516 | 552 | 555 | 542 | 548 | 548 | 572 |
| <i>Other</i> | 83 | 82 | 158 | 142 | 140 | 140 | 141 | 147 | 147 | 153 |
| <i>Internal Combustion</i> | 6 | 6 | 9 | 14 | 16 | 17 | 19 | 23 | 23 | 24 |
| Other | 660 | 624 | 831 | 755 | 784 | 772 | 780 | 793 | 782 | 813 |
| <i>Commercial/Institutional Coal</i> | 172 | 169 | 212 | 184 | 190 | 193 | 192 | 200 | 200 | 206 |
| <i>Commercial/Institutional Oil</i> | 295 | 274 | 425 | 376 | 396 | 381 | 391 | 397 | 389 | 414 |
| <i>Commercial/Institutional Gas</i> | 2 | 2 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 |
| <i>Misc. Fuel Comb. (Except Residential)</i> | 1 | 1 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 6 |
| <i>Residential Wood</i> | 11 | 11 | 7 | 7 | 8 | 6 | 6 | 7 | 7 | 5 |
| <i>Residential Other</i> | 180 | 167 | 175 | 176 | 177 | 178 | 177 | 176 | 173 | 171 |
| INDUSTRIAL PROCESSES | 2,052 | 2,010 | 1,900 | 1,721 | 1,758 | 1,723 | 1,676 | 1,637 | 1,644 | 1,718 |
| Chemical & Allied Processing | 449 | 440 | 297 | 280 | 278 | 269 | 275 | 286 | 287 | 301 |
| Metals Processing | 707 | 695 | 726 | 612 | 615 | 603 | 562 | 530 | 530 | 552 |
| Petroleum & Related Industries | 443 | 429 | 430 | 378 | 416 | 383 | 379 | 369 | 368 | 385 |
| Other Industrial Processes | 411 | 405 | 399 | 396 | 396 | 392 | 398 | 403 | 409 | 427 |
| Solvent Utilization | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Storage & Transport | 5 | 5 | 7 | 10 | 9 | 5 | 2 | 2 | 2 | 2 |
| Waste Disposal & Recycling | 36 | 36 | 42 | 44 | 44 | 71 | 60 | 47 | 48 | 50 |
| TRANSPORTATION | 1,317 | 1,364 | 1,476 | 1,528 | 1,558 | 1,499 | 1,301 | 1,313 | 1,366 | 1,380 |
| On-Road Vehicles | 553 | 570 | 542 | 570 | 578 | 517 | 301 | 304 | 340 | 320 |
| Non-Road Sources | 764 | 794 | 934 | 958 | 980 | 982 | 1,000 | 1,008 | 1,026 | 1,061 |
| MISCELLANEOUS | 27 | 11 | 12 | 11 | 10 | 9 | 15 | 9 | 13 | 13 |
| TOTAL ALL SOURCES | 23,154 | 23,308 | 23,678 | 23,057 | 22,819 | 22,478 | 21,880 | 19,189 | 19,836 | 20,371 |

Note: Some columns may not sum to totals due to rounding.

Table A-9. National Long-Term Air Quality Trends, 1978–1997

| Year | CO 2nd Max. 8-hr ppm | Pb Max. Qtr. µg/m ³ | NO ₂ Arith. Mean ppm | Ozone 2nd Max. 1-hr ppm | PM ₁₀ Wtd. Arith. Mean µg/m ³ | SO ₂ Arith. Mean ppm |
|----------------|----------------------------|--------------------------------------|---------------------------------------|-------------------------------|---|---------------------------------------|
| 1978–87 | (208 sites) | (160 sites) | (93 sites) | (320 sites) | — | (343 sites) |
| 1978 | 9.7 | 1.16 | 0.024 | 0.149 | — | 0.0120 |
| 1979 | 9.5 | 1.01 | 0.024 | 0.137 | — | 0.0118 |
| 1980 | 8.8 | 0.76 | 0.023 | 0.139 | — | 0.0108 |
| 1981 | 8.5 | 0.60 | 0.022 | 0.127 | — | 0.0103 |
| 1982 | 7.9 | 0.53 | 0.021 | 0.125 | — | 0.0095 |
| 1983 | 7.8 | 0.39 | 0.021 | 0.139 | — | 0.0092 |
| 1984 | 7.8 | 0.35 | 0.021 | 0.124 | — | 0.0094 |
| 1985 | 7.0 | 0.24 | 0.021 | 0.123 | — | 0.0087 |
| 1986 | 7.0 | 0.15 | 0.021 | 0.119 | — | 0.0086 |
| 1987 | 6.7 | 0.12 | 0.021 | 0.125 | — | 0.0084 |
| 1988–97 | (368 sites) | (195 sites) | (224 sites) | (660 sites) | (845 sites) | (486 sites) |
| 1988 | 6.3 | 0.12 | 0.021 | 0.130 | 32.4 | 0.0089 |
| 1989 | 6.3 | 0.09 | 0.021 | 0.114 | 32.1 | 0.0087 |
| 1990 | 5.8 | 0.09 | 0.020 | 0.112 | 29.5 | 0.0081 |
| 1991 | 5.6 | 0.07 | 0.020 | 0.113 | 29.2 | 0.0079 |
| 1992 | 5.1 | 0.06 | 0.019 | 0.105 | 26.9 | 0.0073 |
| 1993 | 4.9 | 0.05 | 0.019 | 0.108 | 26.2 | 0.0072 |
| 1994 | 5.0 | 0.05 | 0.020 | 0.107 | 26.2 | 0.0069 |
| 1995 | 4.5 | 0.04 | 0.019 | 0.112 | 25.1 | 0.0056 |
| 1996 | 4.2 | 0.04 | 0.018 | 0.105 | 24.2 | 0.0056 |
| 1997 | 3.9 | 0.04 | 0.018 | 0.105 | 24.0 | 0.0054 |

Table A-10. National Air Quality Trends by Monitoring Location, 1988–1997

| Statistic | # of Sites | Units | Location | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-------------------------|------------|-------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Carbon Monoxide | | | | | | | | | | | | | |
| 2nd Max. 8 hr. | 12 | ppm | Rural | 3.0 | 2.7 | 2.6 | 2.6 | 2.2 | 1.8 | 2.1 | 2.1 | 1.7 | 1.6 |
| 2nd Max. 8 hr. | 145 | ppm | Suburban | 6.0 | 6.1 | 5.6 | 5.3 | 5.0 | 4.8 | 5.0 | 4.3 | 4.0 | 3.9 |
| 2nd Max. 8 hr. | 208 | ppm | Urban | 6.8 | 6.7 | 6.2 | 6.0 | 5.4 | 5.1 | 5.3 | 4.7 | 4.5 | 4.1 |
| Lead | | | | | | | | | | | | | |
| Max. Qtr. | 4 | µg/m ³ | Rural | 0.08 | 0.06 | 0.07 | 0.06 | 0.05 | 0.05 | 0.03 | 0.03 | 0.02 | 0.03 |
| Max. Qtr. | 99 | µg/m ³ | Suburban | 0.09 | 0.08 | 0.07 | 0.06 | 0.05 | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 |
| Max. Qtr. | 90 | µg/m ³ | Urban | 0.14 | 0.09 | 0.10 | 0.07 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 |
| Nitrogen Dioxide | | | | | | | | | | | | | |
| Arith. Mean | 46 | ppm | Rural | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.008 | 0.007 |
| Arith. Mean | 96 | ppm | Suburban | 0.023 | 0.022 | 0.021 | 0.021 | 0.020 | 0.020 | 0.021 | 0.020 | 0.019 | 0.019 |
| Arith. Mean | 80 | ppm | Urban | 0.027 | 0.026 | 0.025 | 0.024 | 0.024 | 0.024 | 0.025 | 0.023 | 0.023 | 0.023 |
| Ozone | | | | | | | | | | | | | |
| 2nd Max. 1-hr | 234 | ppm | Rural | 0.120 | 0.108 | 0.108 | 0.106 | 0.100 | 0.103 | 0.102 | 0.107 | 0.101 | 0.100 |
| 2nd Max. 1-hr | 292 | ppm | Suburban | 0.138 | 0.119 | 0.116 | 0.119 | 0.109 | 0.112 | 0.112 | 0.117 | 0.108 | 0.109 |
| 2nd Max. 1-hr | 117 | ppm | Urban | 0.132 | 0.114 | 0.110 | 0.111 | 0.104 | 0.105 | 0.106 | 0.110 | 0.106 | 0.102 |
| PM₁₀ | | | | | | | | | | | | | |
| Wtd. Arith. Mean | 112 | µg/m ³ | Rural | 25.6 | 25.7 | 24.0 | 23.0 | 21.5 | 20.4 | 20.5 | 19.4 | 19.3 | 19.0 |
| Wtd. Arith. Mean | 329 | µg/m ³ | Suburban | 33.4 | 32.9 | 30.4 | 29.9 | 27.7 | 27.0 | 27.0 | 26.1 | 24.8 | 24.7 |
| Wtd. Arith. Mean | 385 | µg/m ³ | Urban | 33.6 | 33.3 | 30.4 | 30.4 | 27.9 | 27.3 | 27.4 | 26.0 | 25.2 | 25.1 |
| Sulfur Dioxide | | | | | | | | | | | | | |
| Arith. Mean | 127 | ppm | Rural | 0.0072 | 0.0071 | 0.0067 | 0.0066 | 0.0063 | 0.0064 | 0.0060 | 0.0052 | 0.0050 | 0.0048 |
| Arith. Mean | 202 | ppm | Suburban | 0.0095 | 0.0091 | 0.0085 | 0.0083 | 0.0077 | 0.0075 | 0.0071 | 0.0057 | 0.0058 | 0.0056 |
| Arith. Mean | 147 | ppm | Urban | 0.0099 | 0.0097 | 0.0090 | 0.0086 | 0.0078 | 0.0076 | 0.0075 | 0.0059 | 0.0058 | 0.0056 |

Table A-11. National Air Quality Trends Statistics by EPA Region, 1988–1997

| Statistic | | # of Sites | Units | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|------------------|------------------|------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Region 1 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 16 | ppm | 6.2 | 5.9 | 6.2 | 5.7 | 5.8 | 4.9 | 6.1 | 5.4 | 4.9 | 4.2 |
| Pb | Max. Qtr. | — | µg/m ³ | — | — | — | — | — | — | — | — | — | — |
| NO ₂ | Arith. Mean | 16 | ppm | 0.025 | 0.024 | 0.023 | 0.023 | 0.021 | 0.022 | 0.023 | 0.021 | 0.021 | 0.020 |
| O ₃ | 2nd Max. 1-hr | 37 | ppm | 0.150 | 0.121 | 0.119 | 0.130 | 0.110 | 0.118 | 0.115 | 0.117 | 0.102 | 0.1116 |
| O ₃ | 4th Max. 8-hr | 37 | ppm | 0.112 | 0.091 | 0.090 | 0.099 | 0.086 | 0.088 | 0.087 | 0.091 | 0.080 | 0.090 |
| PM ₁₀ | Wtd. Arith. Mean | 71 | µg/m ³ | 24.8 | 24.4 | 22.7 | 23.4 | 20.6 | 20.1 | 20.7 | 18.4 | 19.1 | 19.4 |
| SO ₂ | Arith. Mean | 50 | ppm | 0.0095 | 0.0090 | 0.0081 | 0.0079 | 0.0073 | 0.0070 | 0.0068 | 0.0053 | 0.0053 | 0.0051 |
| Region 2 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 26 | ppm | 6.3 | 6.3 | 5.6 | 5.6 | 5.0 | 4.6 | 5.3 | 4.6 | 4.0 | 3.6 |
| Pb | Max. Qtr. | 12 | µg/m ³ | 0.10 | 0.07 | 0.06 | 0.05 | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 | 0.05 |
| NO ₂ | Arith. Mean | 11 | ppm | 0.032 | 0.030 | 0.029 | 0.028 | 0.027 | 0.027 | 0.029 | 0.027 | 0.027 | 0.026 |
| O ₃ | 2nd Max. 1-hr | 31 | ppm | 0.154 | 0.118 | 0.124 | 0.127 | 0.110 | 0.111 | 0.108 | 0.117 | 0.105 | 0.113 |
| O ₃ | 4th Max. 8-hr | 31 | ppm | 0.119 | 0.093 | 0.096 | 0.103 | 0.085 | 0.089 | 0.087 | 0.096 | 0.083 | 0.093 |
| PM ₁₀ | Wtd. Arith. Mean | 58 | µg/m ³ | 30.6 | 30.4 | 27.7 | 28.2 | 25.3 | 25.5 | 26.1 | 23.4 | 24.3 | 24.9 |
| SO ₂ | Arith. Mean | 38 | ppm | 0.0112 | 0.0109 | 0.0098 | 0.0100 | 0.0092 | 0.0084 | 0.0086 | 0.0066 | 0.0067 | 0.0061 |
| Region 3 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 41 | ppm | 5.6 | 5.6 | 5.2 | 4.7 | 4.4 | 4.3 | 4.7 | 4.0 | 3.7 | 3.4 |
| Pb | Max. Qtr. | 24 | µg/m ³ | 0.15 | 0.11 | 0.09 | 0.08 | 0.06 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 |
| NO ₂ | Arith. Mean | 33 | ppm | 0.023 | 0.022 | 0.022 | 0.022 | 0.021 | 0.021 | 0.022 | 0.020 | 0.021 | 0.020 |
| O ₃ | 2nd Max. 1-hr | 78 | ppm | 0.143 | 0.108 | 0.110 | 0.117 | 0.101 | 0.115 | 0.110 | 0.114 | 0.104 | 0.113 |
| O ₃ | 4th Max. 8-hr | 78 | ppm | 0.112 | 0.087 | 0.088 | 0.096 | 0.082 | 0.092 | 0.087 | 0.093 | 0.084 | 0.091 |
| PM ₁₀ | Wtd. Arith. Mean | 64 | µg/m ³ | 32.6 | 32.0 | 29.3 | 30.4 | 26.0 | 26.7 | 27.7 | 26.7 | 25.5 | 25.6 |
| SO ₂ | Arith. Mean | 64 | ppm | 0.0141 | 0.0136 | 0.0127 | 0.0120 | 0.0110 | 0.0112 | 0.0112 | 0.0084 | 0.0085 | 0.0088 |
| Region 4 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 55 | ppm | 5.6 | 6.0 | 5.3 | 4.9 | 4.9 | 5.0 | 4.6 | 4.3 | 3.8 | 4.0 |
| Pb | Max. Qtr. | 27 | µg/m ³ | 0.07 | 0.06 | 0.04 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 |
| NO ₂ | Arith. Mean | 21 | ppm | 0.017 | 0.016 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 |
| O ₃ | 2nd Max. 1-hr | 111 | ppm | 0.116 | 0.100 | 0.106 | 0.098 | 0.096 | 0.105 | 0.100 | 0.105 | 0.102 | 0.103 |
| O ₃ | 4th Max. 8-hr | 110 | ppm | 0.092 | 0.079 | 0.084 | 0.076 | 0.077 | 0.082 | 0.081 | 0.083 | 0.082 | 0.083 |
| PM ₁₀ | Wtd. Arith. Mean | 100 | µg/m ³ | 32.5 | 31.1 | 31.0 | 29.5 | 27.5 | 26.8 | 26.4 | 26.0 | 24.5 | 24.9 |
| SO ₂ | Arith. Mean | 66 | ppm | 0.0068 | 0.0065 | 0.0063 | 0.0060 | 0.0057 | 0.0058 | 0.0053 | 0.0045 | 0.0046 | 0.0046 |
| Region 5 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 44 | ppm | 5.6 | 5.7 | 5.1 | 4.9 | 4.5 | 4.4 | 5.2 | 4.1 | 3.3 | 3.1 |
| Pb | Max. Qtr. | 45 | µg/m ³ | 0.17 | 0.12 | 0.16 | 0.09 | 0.09 | 0.08 | 0.08 | 0.06 | 0.06 | 0.06 |
| NO ₂ | Arith. Mean | 13 | ppm | 0.024 | 0.024 | 0.022 | 0.021 | 0.021 | 0.022 | 0.023 | 0.023 | 0.023 | 0.023 |
| O ₃ | 2nd Max. 1-hr | 126 | ppm | 0.128 | 0.107 | 0.101 | 0.111 | 0.097 | 0.097 | 0.105 | 0.111 | 0.102 | 0.101 |
| O ₃ | 4th Max. 8-hr | 126 | ppm | 0.101 | 0.085 | 0.082 | 0.089 | 0.079 | 0.077 | 0.084 | 0.089 | 0.085 | 0.083 |
| PM ₁₀ | Wtd. Arith. Mean | 145 | µg/m ³ | 33.7 | 33.9 | 31.4 | 30.3 | 28.1 | 26.5 | 28.3 | 27.4 | 24.8 | 24.7 |
| SO ₂ | Arith. Mean | 124 | ppm | 0.0098 | 0.0098 | 0.0093 | 0.0091 | 0.0082 | 0.0083 | 0.0077 | 0.0061 | 0.0062 | 0.0059 |

Table A-11. National Air Quality Trends Statistics by EPA Region, 1988–1997 (continued)

| | Statistic | # of Sites | Units | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|------------------|------------------|------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Region 6 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 33 | ppm | 6.1 | 6.1 | 6.1 | 5.4 | 5.4 | 5.3 | 4.7 | 4.4 | 4.9 | 4.4 |
| Pb | Max. Qtr. | 25 | µg/m ³ | 0.12 | 0.12 | 0.10 | 0.09 | 0.07 | 0.07 | 0.05 | 0.06 | 0.06 | 0.04 |
| NO ₂ | Arith. Mean | 21 | ppm | 0.017 | 0.015 | 0.015 | 0.014 | 0.016 | 0.014 | 0.016 | 0.016 | 0.015 | 0.015 |
| O ₃ | 2nd Max. 1-hr | 64 | ppm | 0.125 | 0.122 | 0.124 | 0.116 | 0.111 | 0.112 | 0.111 | 0.123 | 0.111 | 0.116 |
| O ₃ | 4th Max. 8-hr | 64 | ppm | 0.089 | 0.086 | 0.089 | 0.081 | 0.080 | 0.081 | 0.083 | 0.092 | 0.082 | 0.083 |
| PM ₁₀ | Wtd. Arith. Mean | 92 | µg/m ³ | 29.6 | 28.9 | 25.8 | 24.4 | 24.5 | 23.8 | 24.0 | 24.9 | 23.9 | 22.5 |
| SO ₂ | Arith. Mean | 34 | ppm | 0.0065 | 0.0064 | 0.0062 | 0.0059 | 0.0062 | 0.0053 | 0.0046 | 0.0046 | 0.0047 | 0.0043 |
| Region 7 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 23 | ppm | 5.1 | 5.2 | 4.9 | 5.0 | 4.3 | 4.2 | 4.1 | 3.9 | 4.0 | 3.7 |
| Pb | Max. Qtr. | 19 | µg/m ³ | 0.07 | 0.05 | 0.03 | 0.03 | 0.02 | 0.02 | 0.01 | 0.01 | 0.02 | 0.04 |
| NO ₂ | Arith. Mean | 11 | ppm | 0.016 | 0.016 | 0.015 | 0.015 | 0.016 | 0.015 | 0.016 | 0.016 | 0.016 | 0.015 |
| O ₃ | 2nd Max. 1-hr | 30 | ppm | 0.111 | 0.092 | 0.089 | 0.091 | 0.091 | 0.088 | 0.096 | 0.101 | 0.093 | 0.094 |
| O ₃ | 4th Max. 8-hr | 30 | ppm | 0.087 | 0.073 | 0.069 | 0.074 | 0.074 | 0.066 | 0.077 | 0.081 | 0.075 | 0.075 |
| PM ₁₀ | Wtd. Arith. Mean | 48 | µg/m ³ | 33.1 | 32.8 | 29.7 | 28.9 | 28.2 | 27.0 | 27.8 | 26.9 | 27.4 | 25.6 |
| SO ₂ | Arith. Mean | 31 | ppm | 0.0084 | 0.0082 | 0.0075 | 0.0071 | 0.0062 | 0.0062 | 0.0063 | 0.0052 | 0.0049 | 0.0046 |
| Region 8 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 22 | ppm | 8.0 | 7.0 | 6.3 | 6.4 | 6.1 | 5.4 | 5.0 | 4.7 | 4.5 | 4.3 |
| Pb | Max. Qtr. | 7 | µg/m ³ | 0.09 | 0.06 | 0.06 | 0.06 | 0.05 | 0.06 | 0.04 | 0.04 | 0.03 | 0.03 |
| NO ₂ | Arith. Mean | 17 | ppm | 0.014 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 | 0.013 | 0.013 | 0.013 |
| O ₃ | 2nd Max. 1-hr | 20 | ppm | 0.098 | 0.092 | 0.086 | 0.084 | 0.081 | 0.079 | 0.083 | 0.083 | 0.085 | 0.081 |
| O ₃ | 4th Max. 8-hr | 20 | ppm | 0.075 | 0.072 | 0.067 | 0.068 | 0.065 | 0.064 | 0.067 | 0.066 | 0.068 | 0.066 |
| PM ₁₀ | Wtd. Arith. Mean | 101 | µg/m ³ | 28.1 | 27.4 | 24.1 | 25.3 | 23.5 | 22.7 | 22.1 | 19.6 | 19.9 | 19.2 |
| SO ₂ | Arith. Mean | 33 | ppm | 0.0064 | 0.0058 | 0.0057 | 0.0054 | 0.0059 | 0.0057 | 0.0053 | 0.0048 | 0.0041 | 0.0036 |
| Region 9 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 93 | ppm | 7.0 | 6.9 | 6.4 | 6.3 | 5.4 | 4.9 | 5.3 | 4.7 | 4.5 | 4.2 |
| Pb | Max. Qtr. | 31 | µg/m ³ | 0.10 | 0.08 | 0.07 | 0.06 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 |
| NO ₂ | Arith. Mean | 81 | ppm | 0.023 | 0.023 | 0.021 | 0.021 | 0.020 | 0.019 | 0.020 | 0.019 | 0.018 | 0.017 |
| O ₃ | 2nd Max. 1-hr | 150 | ppm | 0.138 | 0.139 | 0.127 | 0.126 | 0.124 | 0.120 | 0.117 | 0.118 | 0.114 | 0.102 |
| O ₃ | 4th Max. 8-hr | 150 | ppm | 0.098 | 0.096 | 0.090 | 0.091 | 0.090 | 0.088 | 0.087 | 0.087 | 0.086 | 0.078 |
| PM ₁₀ | Wtd. Arith. Mean | 111 | µg/m ³ | 40.3 | 41.8 | 38.1 | 36.9 | 32.8 | 31.8 | 30.6 | 30.6 | 28.7 | 29.0 |
| SO ₂ | Arith. Mean | 37 | ppm | 0.0033 | 0.0029 | 0.0025 | 0.0024 | 0.0025 | 0.0022 | 0.0021 | 0.0024 | 0.0023 | 0.0022 |
| Region 10 | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | 15 | ppm | 9.5 | 8.8 | 7.8 | 8.2 | 7.6 | 6.5 | 6.1 | 5.9 | 5.9 | 5.5 |
| Pb | Max. Qtr. | 5 | µg/m ³ | 0.09 | 0.06 | 0.06 | 0.06 | 0.04 | 0.05 | 0.05 | 0.05 | 0.04 | 0.05 |
| NO ₂ | Arith. Mean | — | ppm | — | — | — | — | — | — | — | — | — | — |
| O ₃ | 2nd Max. 1-hr | 13 | ppm | 0.098 | 0.083 | 0.099 | 0.086 | 0.087 | 0.081 | 0.088 | 0.086 | 0.097 | 0.076 |
| O ₃ | 4th Max. 8-hr | 13 | ppm | 0.070 | 0.060 | 0.072 | 0.064 | 0.069 | 0.058 | 0.062 | 0.063 | 0.076 | 0.058 |
| PM ₁₀ | Wtd. Arith. Mean | 55 | µg/m ³ | 35.8 | 34.4 | 31.2 | 32.3 | 30.5 | 30.6 | 26.9 | 23.6 | 23.5 | 24.0 |
| SO ₂ | Arith. Mean | 9 | ppm | 0.0069 | 0.0066 | 0.0071 | 0.0070 | 0.0073 | 0.0066 | 0.0066 | 0.0059 | 0.0051 | 0.0047 |

Table A-12. Maximum Air Quality Concentrations by County, 1997

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|------------------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| AL | CALHOUN CO | 116,034 | . | . | . | . | . | 49 | 51 | . |
| AL | CLAY CO | 13,252 | . | . | . | 0.092 | 0.079 | . | . | . |
| AL | COLBERT CO | 51,666 | . | . | . | . | . | 41 | 44 | 0.020 |
| AL | DE KALB CO | 54,651 | . | . | . | . | . | 49 | 51 | . |
| AL | ELMORE CO | 49,210 | . | . | . | 0.087 | 0.070 | . | . | . |
| AL | ESCAMBIA CO | 35,518 | . | . | . | . | . | 51 | 55 | . |
| AL | ETOWAH CO | 99,840 | . | . | . | . | . | 58 | 63 | . |
| AL | FRANKLIN CO | 27,814 | . | . | . | . | . | 43 | 49 | . |
| AL | GENEVA CO | 23,647 | . | . | . | 0.084 | 0.073 | . | . | . |
| AL | HOUSTON CO | 81,331 | . | . | . | . | . | 50 | 58 | . |
| AL | JACKSON CO | 47,796 | . | . | . | . | . | . | . | 0.023 |
| AL | JEFFERSON CO | 651,525 | 6.1 | . | . | 0.122 | 0.088 | 111 | 111 | 0.018 |
| AL | LAWRENCE CO | 31,513 | . | . | . | 0.090 | 0.076 | . | . | . |
| AL | LIMESTONE CO | 54,135 | . | . | . | . | . | 35 | 40 | . |
| AL | MADISON CO | 238,912 | 3.1 | . | . | 0.096 | 0.086 | 48 | 50 | . |
| AL | MARENGO CO | 23,084 | . | . | . | . | . | 52 | 57 | . |
| AL | MOBILE CO | 378,643 | . | . | . | 0.117 | 0.081 | 142 | 166 | 0.049 |
| AL | MONTGOMERY CO | 209,085 | 1.2 | . | 0.0080 | 0.083 | 0.068 | 53 | 57 | 0.005 |
| AL | MORGAN CO | 100,043 | . | . | . | . | . | 48 | 55 | . |
| AL | PIKE CO | 27,595 | . | 0.62 | . | . | . | 48 | 51 | . |
| AL | RUSSELL CO | 46,860 | . | . | . | . | . | 55 | 68 | . |
| AL | SHELBY CO | 99,358 | . | . | 0.0100 | 0.115 | 0.084 | 67 | 71 | . |
| AL | SUMTER CO | 16,174 | . | . | . | 0.070 | 0.062 | . | . | . |
| AL | TALLADEGA CO | 74,107 | . | . | . | . | . | 67 | 70 | . |
| AL | TUSCALOOSA CO | 150,522 | . | . | . | . | . | 55 | 70 | . |
| AL | WALKER CO | 67,670 | . | . | . | . | . | 43 | 46 | . |
| AK | ANCHORAGE BOROUGH | 226,338 | 7.1 | . | . | . | . | 127 | 113 | . |
| AK | FAIRBANKS N. STAR BOR. | 77,720 | 12.1 | . | . | . | . | 59 | 59 | . |
| AK | JUNEAU BOROUGH | 26,751 | . | . | . | . | . | 90 | 90 | . |
| AK | YUKON-KOYUKUK CA | 8,478 | . | . | . | 0.057 | 0.051 | . | . | . |
| AZ | COCHISE CO | 97,624 | . | . | . | 0.070 | 0.065 | 74 | 77 | . |
| AZ | COCONINO CO | 96,591 | . | . | . | 0.076 | 0.072 | . | . | . |
| AZ | GILA CO | 40,216 | . | . | . | . | . | 68 | 158 | . |
| AZ | GRAHAM CO | 26,554 | . | . | . | . | . | 62 | 95 | . |
| AZ | MARICOPA CO | 2,122,101 | 7.8 | 0.03 | 0.0319 | 0.113 | 0.091 | 308 | 301 | 0.010 |
| AZ | PIMA CO | 666,880 | 4.4 | 0.01 | 0.0178 | 0.097 | 0.079 | 129 | 134 | 0.004 |
| AZ | PINAL CO | 116,379 | . | . | . | . | . | . | . | 0.024 |
| AZ | SANTA CRUZ CO | 29,676 | . | . | . | . | . | 93 | 126 | . |
| AZ | YAVAPAI CO | 107,714 | . | . | . | . | . | 27 | 33 | . |
| AZ | YUMA CO | 106,895 | . | . | . | 0.072 | 0.063 | . | . | . |
| AR | ARKANSAS CO | 21,653 | . | . | . | . | . | 67 | 81 | . |
| AR | ASHLEY CO | 24,319 | . | . | . | . | . | 63 | 93 | . |
| AR | CRAIGHEAD CO | 68,956 | . | . | . | . | . | 60 | 75 | . |
| AR | CRITTENDEN CO | 49,939 | . | . | . | 0.122 | 0.091 | 44 | 45 | . |
| AR | GARLAND CO | 73,397 | . | . | . | . | . | 44 | 80 | . |
| AR | JEFFERSON CO | 85,487 | . | . | . | . | . | 61 | 78 | . |
| AR | MARION CO | 12,001 | . | . | . | . | . | 31 | 60 | . |
| AR | MILLER CO | 38,467 | . | . | . | . | . | 64 | 78 | . |
| AR | MONTGOMERY CO | 7,841 | . | . | . | 0.077 | 0.068 | . | . | . |
| AR | NEWTON CO | 7,666 | . | . | . | 0.088 | 0.073 | . | . | . |
| AR | OUACHITA CO | 30,574 | . | . | . | . | . | 52 | 61 | . |
| AR | PHILLIPS CO | 28,838 | . | . | . | . | . | 47 | 59 | . |
| AR | POPE CO | 45,883 | . | . | . | . | . | 46 | 52 | . |
| AR | PULASKI CO | 349,660 | 4.7 | . | 0.0103 | 0.100 | 0.078 | 61 | 86 | 0.006 |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|--------------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| AR | SEBASTIAN CO | 99,590 | . | . | . | . | . | 59 | 68 | . |
| AR | UNION CO | 46,719 | . | . | . | . | . | 38 | 56 | 0.049 |
| AR | WASHINGTON CO | 113,409 | . | . | . | . | . | 36 | 54 | . |
| AR | WHITE CO | 54,676 | . | . | . | . | . | 55 | 77 | . |
| CA | ALAMEDA CO | 1,279,182 | 3.6 | 0.00 | 0.0198 | 0.111 | 0.072 | 55 | 65 | . |
| CA | AMADOR CO | 30,039 | 1.4 | 0.00 | . | 0.117 | 0.084 | . | . | . |
| CA | BUTTE CO | 182,120 | 4.5 | 0.00 | 0.0132 | 0.074 | 0.066 | 84 | 108 | . |
| CA | CALAVERAS CO | 31,998 | 1.0 | . | . | 0.118 | 0.085 | 34 | 112 | . |
| CA | COLUSA CO | 16,275 | . | . | . | 0.090 | 0.073 | 63 | 60 | . |
| CA | CONTRA COSTA CO | 803,732 | 3.1 | 0.01 | 0.0160 | 0.095 | 0.072 | 71 | 77 | 0.012 |
| CA | DEL NORTE CO | 23,460 | . | . | . | . | . | 46 | 58 | . |
| CA | EL DORADO CO | 125,995 | 3.6 | . | 0.0111 | 0.120 | 0.092 | 52 | 62 | . |
| CA | FRESNO CO | 667,490 | 7.1 | 0.00 | 0.0208 | 0.140 | 0.115 | 111 | 125 | 0.002 |
| CA | GLENN CO | 24,798 | . | . | . | 0.085 | 0.076 | 59 | 72 | . |
| CA | HUMBOLDT CO | 119,118 | . | . | . | . | . | 41 | 56 | . |
| CA | IMPERIAL CO | 109,303 | 16.7 | 0.03 | 0.0152 | 0.150 | 0.105 | 192 | 199 | 0.011 |
| CA | INYO CO | 18,281 | . | . | . | 0.084 | 0.077 | 256 | 402 | . |
| CA | KERN CO | 543,477 | 3.2 | 0.00 | 0.0244 | 0.141 | 0.105 | 96 | 137 | 0.005 |
| CA | KINGS CO | 101,469 | . | . | 0.0138 | 0.125 | 0.097 | 126 | 199 | . |
| CA | LAKE CO | 50,631 | . | . | . | 0.080 | 0.058 | 17 | 18 | . |
| CA | LOS ANGELES CO | 8,863,164 | 15.0 | 0.07 | 0.0432 | 0.168 | 0.120 | 93 | 116 | 0.010 |
| CA | MADERA CO | 88,090 | . | . | . | 0.085 | . | . | . | . |
| CA | MARIN CO | 230,096 | 2.6 | . | 0.0163 | 0.077 | 0.048 | 60 | 72 | . |
| CA | MARIPOSA CO | 14,302 | . | . | . | 0.111 | 0.093 | 39 | 62 | . |
| CA | MENDOCINO CO | 80,345 | 2.8 | . | 0.0101 | 0.067 | 0.054 | 50 | 66 | . |
| CA | MERCED CO | 178,403 | . | . | 0.0132 | 0.090 | 0.074 | . | . | . |
| CA | MONO CO | 9,956 | 3.3 | . | . | 0.083 | 0.077 | 99 | 112 | . |
| CA | MONTEREY CO | 355,660 | 1.7 | . | 0.0098 | 0.082 | 0.061 | 70 | 91 | . |
| CA | NAPA CO | 110,765 | 3.9 | . | 0.0121 | 0.075 | 0.055 | 71 | 78 | . |
| CA | NEVADA CO | 78,510 | . | . | . | 0.108 | 0.096 | 158 | 136 | . |
| CA | ORANGE CO | 2,410,556 | 5.7 | . | 0.0328 | 0.130 | 0.082 | 82 | 91 | 0.006 |
| CA | PLACER CO | 172,796 | 2.1 | 0.00 | 0.0152 | 0.112 | 0.085 | 39 | 50 | . |
| CA | PLUMAS CO | 19,739 | . | . | . | 0.071 | 0.061 | 66 | 66 | . |
| CA | RIVERSIDE CO | 1,170,413 | 5.1 | 0.05 | 0.0258 | 0.180 | 0.135 | 133 | 227 | 0.005 |
| CA | SACRAMENTO CO | 1,041,219 | 6.7 | 0.01 | 0.0190 | 0.136 | 0.091 | 104 | 108 | 0.006 |
| CA | SAN BENITO CO | 36,697 | . | . | . | 0.092 | 0.076 | 33 | 34 | . |
| CA | SAN BERNARDINO CO | 1,418,380 | 5.4 | 0.04 | 0.0362 | 0.171 | 0.127 | 133 | 208 | 0.005 |
| CA | SAN DIEGO CO | 2,498,016 | 4.9 | 0.03 | 0.0237 | 0.120 | 0.093 | 93 | 125 | 0.016 |
| CA | SAN FRANCISCO CO | 723,959 | 3.9 | 0.01 | 0.0200 | 0.067 | 0.042 | 65 | 81 | 0.006 |
| CA | SAN JOAQUIN CO | 480,628 | 3.9 | 0.00 | 0.0216 | 0.109 | 0.079 | 95 | 130 | . |
| CA | SAN LUIS OBISPO CO | 217,162 | 2.3 | . | 0.0127 | 0.085 | 0.070 | 68 | 75 | 0.026 |
| CA | SAN MATEO CO | 649,623 | 3.8 | . | 0.0184 | 0.079 | 0.053 | 65 | 70 | . |
| CA | SANTA BARBARA CO | 369,608 | 3.8 | 0.00 | 0.0193 | 0.108 | 0.081 | 63 | 122 | 0.005 |
| CA | SANTA CLARA CO | 1,497,577 | 5.6 | 0.01 | 0.0249 | 0.090 | 0.070 | 72 | 95 | . |
| CA | SANTA CRUZ CO | 229,734 | 0.7 | . | 0.0043 | 0.078 | 0.063 | 88 | 113 | 0.002 |
| CA | SHASTA CO | 147,036 | . | . | . | 0.108 | 0.087 | 56 | 63 | . |
| CA | SIERRA CO | 3,318 | . | . | . | . | . | 93 | 138 | . |
| CA | SISKIYOU CO | 43,531 | . | . | . | 0.070 | 0.059 | 30 | 32 | . |
| CA | SOLANO CO | 340,421 | 4.9 | . | 0.0130 | 0.101 | 0.071 | 63 | 85 | 0.005 |
| CA | SONOMA CO | 388,222 | 3.1 | . | 0.0131 | 0.100 | 0.081 | 55 | 85 | . |
| CA | STANISLAUS CO | 370,522 | 4.2 | 0.00 | 0.0208 | 0.113 | 0.089 | 115 | 119 | . |
| CA | SUTTER CO | 64,415 | 3.9 | . | 0.0140 | 0.096 | 0.074 | 83 | 98 | . |
| CA | TEHAMA CO | 49,625 | . | . | . | 0.090 | 0.076 | 52 | 58 | . |
| CA | TRINITY CO | 13,063 | . | . | . | . | . | 42 | 54 | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|-----------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| CA | TULARE CO | 311,921 | 3.5 | . | 0.0188 | 0.117 | 0.101 | 86 | 96 | . |
| CA | TUOLUMNE CO | 48,456 | 1.9 | . | . | 0.107 | 0.086 | . | . | . |
| CA | VENTURA CO | 669,016 | 3.2 | 0.00 | 0.0199 | 0.128 | 0.105 | 136 | 253 | 0.011 |
| CA | YOLO CO | 141,092 | 1.5 | . | 0.0099 | 0.095 | 0.071 | 60 | 126 | . |
| CO | ADAMS CO | 265,038 | 4.3 | 0.03 | 0.0232 | 0.089 | 0.071 | 98 | 94 | 0.016 |
| CO | ALAMOSA CO | 13,617 | . | . | . | . | . | 113 | 93 | . |
| CO | ARAPAHOE CO | 391,511 | 2.8 | . | . | 0.082 | 0.065 | . | . | . |
| CO | ARCHULETA CO | 5,345 | . | . | . | . | . | 96 | 85 | . |
| CO | BOULDER CO | 225,339 | 5.4 | . | . | 0.092 | 0.072 | 42 | 43 | . |
| CO | DELTA CO | 20,980 | . | . | . | . | . | 78 | 90 | . |
| CO | DENVER CO | 467,610 | 6.4 | 0.03 | 0.0339 | 0.083 | 0.066 | 93 | 94 | 0.026 |
| CO | DOUGLAS CO | 60,391 | . | . | . | 0.094 | 0.075 | 54 | 54 | . |
| CO | EL PASO CO | 397,014 | 4.9 | 0.01 | . | 0.070 | 0.059 | 79 | 78 | . |
| CO | FREMONT CO | 32,273 | . | . | . | . | . | 37 | 41 | . |
| CO | GARFIELD CO | 29,974 | . | . | . | . | . | 36 | 45 | . |
| CO | GUNNISON CO | 10,273 | . | . | . | . | . | 215 | 203 | . |
| CO | JEFFERSON CO | 438,430 | 4.9 | . | 0.0094 | 0.095 | 0.076 | 70 | 70 | . |
| CO | LAKE CO | 6,007 | . | 0.03 | . | . | . | . | . | . |
| CO | LA PLATA CO | 32,284 | . | . | . | . | . | 106 | 106 | . |
| CO | LARIMER CO | 186,136 | 5.2 | . | . | 0.085 | 0.064 | 34 | 40 | . |
| CO | MESA CO | 93,145 | 5.4 | . | . | . | . | 49 | 48 | . |
| CO | MONTEZUMA CO | 18,672 | . | . | . | 0.068 | . | . | . | . |
| CO | MONTROSE CO | 24,423 | . | . | . | . | . | 55 | 65 | . |
| CO | PITKIN CO | 12,661 | . | . | . | . | . | 89 | 68 | . |
| CO | PROWERS CO | 13,347 | . | . | . | . | . | 98 | 66 | . |
| CO | PUEBLO CO | 123,051 | . | . | . | . | . | 56 | 88 | . |
| CO | ROUTT CO | 14,088 | . | . | . | . | . | 112 | 99 | . |
| CO | SAN MIGUEL CO | 3,653 | . | . | . | . | . | 80 | 75 | . |
| CO | SUMMIT CO | 12,881 | . | . | . | . | . | 75 | 95 | . |
| CO | TELLER CO | 12,468 | . | . | . | . | . | 121 | 120 | . |
| CO | WELD CO | 131,821 | 4.8 | . | . | 0.095 | 0.069 | 56 | 56 | . |
| CT | FAIRFIELD CO | 827,645 | 5.1 | . | 0.0226 | 0.142 | 0.109 | 65 | 90 | 0.031 |
| CT | HARTFORD CO | 851,783 | 5.9 | . | 0.0178 | 0.148 | 0.097 | 47 | 53 | 0.025 |
| CT | LITCHFIELD CO | 174,092 | . | . | . | 0.124 | 0.097 | 38 | 41 | . |
| CT | MIDDLESEX CO | 143,196 | . | . | . | 0.135 | 0.103 | 44 | 47 | . |
| CT | NEW HAVEN CO | 804,219 | 3.9 | . | 0.0236 | 0.145 | 0.109 | 64 | 63 | 0.032 |
| CT | NEW LONDON CO | 254,957 | . | . | . | 0.150 | 0.107 | 45 | 65 | 0.022 |
| CT | TOLLAND CO | 128,699 | . | . | . | 0.146 | 0.097 | . | . | 0.015 |
| CT | WINDHAM CO | 102,525 | . | . | . | . | . | 37 | 41 | . |
| DE | KENT CO | 110,993 | . | . | . | 0.124 | 0.099 | . | . | . |
| DE | NEW CASTLE CO | 441,946 | 4.5 | . | 0.0178 | 0.140 | 0.104 | 68 | 92 | 0.057 |
| DE | SUSSEX CO | 113,229 | . | . | . | 0.127 | 0.100 | 49 | 63 | 0.023 |
| DC | WASHINGTON | 606,900 | 6.4 | 0.01 | 0.0246 | 0.128 | 0.096 | 47 | 49 | 0.022 |
| FL | ALACHUA CO | 181,596 | . | . | . | 0.091 | . | 41 | 75 | . |
| FL | BAY CO | 126,994 | . | . | . | . | . | 52 | 62 | . |
| FL | BREVARD CO | 398,978 | . | . | . | 0.086 | 0.077 | 38 | 42 | . |
| FL | BROWARD CO | 1,255,488 | 4.8 | 0.04 | 0.0097 | 0.092 | 0.073 | 39 | 60 | 0.011 |
| FL | COLLIER CO | 152,099 | . | . | . | . | . | 37 | 46 | . |
| FL | DADE CO | 1,937,094 | 4.1 | . | 0.0166 | 0.106 | 0.075 | 52 | 71 | 0.004 |
| FL | DUVAL CO | 672,971 | 3.0 | 0.02 | 0.0143 | 0.116 | 0.087 | 50 | 56 | 0.015 |
| FL | ESCAMBIA CO | 262,798 | . | . | . | 0.110 | 0.086 | 56 | 57 | 0.033 |
| FL | GULF CO | 11,504 | . | . | . | . | . | 54 | 65 | . |
| FL | HAMILTON CO | 10,930 | . | . | . | . | . | 43 | 44 | 0.026 |
| FL | HILLSBOROUGH CO | 834,054 | 3.7 | 0.64 | 0.0096 | 0.112 | 0.086 | 87 | 92 | 0.038 |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|---------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| FL | LAKE CO | 152,104 | . | . | . | . | . | 43 | 39 | . |
| FL | LEE CO | 335,113 | . | . | . | 0.083 | 0.072 | 33 | 38 | . |
| FL | LEON CO | 192,493 | . | . | . | 0.056 | . | 43 | 43 | . |
| FL | MANATEE CO | 211,707 | . | . | . | 0.099 | 0.077 | 40 | 54 | . |
| FL | MARTIN CO | 100,900 | . | . | . | . | . | 32 | 40 | . |
| FL | NASSAU CO | 43,941 | . | . | . | . | . | 62 | 64 | 0.035 |
| FL | ORANGE CO | 677,491 | 4.3 | . | 0.0129 | 0.109 | 0.079 | 52 | 53 | 0.006 |
| FL | OSCEOLA CO | 107,728 | . | . | . | 0.088 | 0.075 | . | . | . |
| FL | PALM BEACH CO | 863,518 | 3.6 | 0.00 | 0.0120 | 0.086 | 0.068 | 39 | 67 | 0.013 |
| FL | PASCO CO | 281,131 | . | . | . | 0.092 | 0.079 | . | . | . |
| FL | PINELLAS CO | 851,659 | 3.7 | 0.00 | 0.0115 | 0.094 | 0.078 | 55 | 62 | 0.033 |
| FL | POLK CO | 405,382 | . | . | . | 0.102 | 0.079 | . | . | 0.017 |
| FL | PUTNAM CO | 65,070 | . | . | . | . | . | 44 | 44 | 0.014 |
| FL | ST JOHNS CO | 83,829 | . | . | . | 0.089 | 0.076 | . | . | . |
| FL | ST LUCIE CO | 150,171 | . | . | . | 0.082 | 0.067 | 35 | 35 | . |
| FL | SARASOTA CO | 277,776 | 5.3 | . | . | 0.105 | 0.079 | 56 | 52 | 0.012 |
| FL | SEMINOLE CO | 287,529 | . | . | . | 0.096 | 0.076 | 37 | 42 | . |
| FL | VOLUSIA CO | 370,712 | . | . | . | 0.088 | 0.073 | 38 | 40 | . |
| GA | BARTOW CO | 55,911 | . | . | . | . | . | . | . | 0.018 |
| GA | BIBB CO | 149,967 | . | . | . | 0.122 | 0.095 | 77 | 102 | 0.011 |
| GA | CHATHAM CO | 216,935 | . | . | . | 0.080 | 0.071 | 49 | 53 | 0.024 |
| GA | CHATTOOGA CO | 22,242 | . | . | . | . | . | 52 | 71 | . |
| GA | DE KALB CO | 545,837 | 4.3 | 0.34 | 0.0147 | 0.125 | 0.092 | 53 | 64 | . |
| GA | DOUGHERTY CO | 96,311 | . | . | . | . | . | 57 | 80 | . |
| GA | DOUGLAS CO | 71,120 | . | . | . | 0.103 | . | . | . | . |
| GA | FANNIN CO | 15,992 | . | . | . | 0.083 | 0.075 | . | . | 0.032 |
| GA | FLOYD CO | 81,251 | . | . | . | . | . | 61 | 71 | 0.016 |
| GA | FULTON CO | 648,951 | 3.7 | 0.02 | 0.0252 | 0.133 | 0.104 | 75 | 80 | 0.027 |
| GA | GLYNN CO | 62,496 | . | . | . | 0.091 | 0.079 | 55 | 58 | . |
| GA | GWINNETT CO | 352,910 | . | . | . | 0.105 | 0.086 | . | . | . |
| GA | MUSCOGEE CO | 179,278 | . | 0.81 | . | 0.098 | 0.081 | 64 | 127 | . |
| GA | PAULDING CO | 41,611 | . | . | . | 0.103 | 0.086 | . | . | . |
| GA | RICHMOND CO | 189,719 | . | . | . | 0.118 | 0.087 | 54 | 64 | 0.013 |
| GA | ROCKDALE CO | 54,091 | . | . | 0.0075 | 0.139 | 0.110 | . | . | . |
| GA | SPALDING CO | 54,457 | . | . | . | . | . | 55 | 59 | . |
| GA | WALKER CO | 58,340 | . | . | . | . | . | 57 | 57 | . |
| GA | WASHINGTON CO | 19,112 | . | . | . | . | . | 61 | 61 | . |
| HI | HONOLULU CO | 836,231 | 2.5 | 0.03 | 0.0046 | 0.053 | 0.047 | 28 | 29 | 0.007 |
| HI | KAUAI CO | 51,177 | . | . | . | . | . | 26 | 31 | . |
| HI | MAUI CO | 100,374 | . | . | . | . | . | 87 | 77 | . |
| ID | ADA CO | 205,775 | 4.7 | . | 0.0194 | . | . | 91 | 161 | . |
| ID | BANNOCK CO | 66,026 | . | . | . | . | . | 89 | 71 | 0.034 |
| ID | BLAINE CO | 13,552 | . | . | . | . | . | 52 | 58 | . |
| ID | BONNER CO | 26,622 | . | . | . | . | . | 73 | 73 | . |
| ID | BONNEVILLE CO | 72,207 | . | . | . | . | . | 56 | 79 | . |
| ID | BUTTE CO | 2,918 | . | . | . | 0.066 | 0.060 | . | . | . |
| ID | CANYON CO | 90,076 | . | . | . | . | . | 63 | 80 | . |
| ID | CARIBOU CO | 6,963 | . | . | . | . | . | 63 | 63 | . |
| ID | KOOTENAI CO | 69,795 | . | . | . | . | . | 67 | 91 | . |
| ID | LEMHI CO | 6,899 | . | . | . | . | . | 123 | 155 | . |
| ID | LEWIS CO | 3,516 | . | . | . | . | . | 62 | 83 | . |
| ID | MADISON CO | 23,674 | . | . | . | . | . | 43 | 46 | . |
| ID | MINIDOKA CO | 19,361 | . | . | . | . | . | 49 | 49 | . |
| ID | NEZ PERCE CO | 33,754 | 4.7 | . | . | . | . | 66 | 98 | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|----------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| ID | POWER CO | 7,086 | . | . | . | . | . | 346 | 259 | . |
| ID | SHOSHONE CO | 13,931 | . | 0.12 | . | . | . | 96 | 97 | . |
| ID | TWIN FALLS CO | 53,580 | . | . | . | . | . | 44 | 45 | . |
| IL | ADAMS CO | 66,090 | . | . | . | 0.078 | 0.068 | 40 | 43 | 0.024 |
| IL | CHAMPAIGN CO | 173,025 | . | . | . | 0.088 | 0.076 | 44 | 46 | 0.018 |
| IL | COLES CO | 51,644 | . | . | . | . | . | 43 | 44 | . |
| IL | COOK CO | 5,105,067 | 5.3 | 0.33 | 0.0336 | 0.113 | 0.094 | 99 | 114 | 0.041 |
| IL | DU PAGE CO | 781,666 | . | 0.04 | . | 0.088 | 0.072 | 58 | 59 | 0.018 |
| IL | EFFINGHAM CO | 31,704 | . | . | . | 0.095 | 0.077 | . | . | . |
| IL | HAMILTON CO | 8,499 | . | . | . | 0.089 | 0.074 | . | . | . |
| IL | JACKSON CO | 61,067 | . | . | . | . | . | 45 | 49 | . |
| IL | JERSEY CO | 20,539 | . | . | . | 0.096 | 0.082 | . | . | . |
| IL | KANE CO | 317,471 | . | . | . | 0.092 | 0.076 | 41 | 50 | . |
| IL | LAKE CO | 516,418 | . | . | . | 0.110 | 0.088 | . | . | . |
| IL | LA SALLE CO | 106,913 | . | . | . | . | . | 138 | 95 | . |
| IL | MC HENRY CO | 183,241 | . | . | . | 0.098 | 0.080 | . | . | . |
| IL | MACON CO | 117,206 | . | 0.03 | . | 0.087 | 0.077 | 46 | 56 | 0.021 |
| IL | MACOUPIN CO | 47,679 | 1.0 | 0.01 | . | 0.101 | 0.076 | 38 | 44 | 0.016 |
| IL | MADISON CO | 249,238 | 3.2 | 2.11 | . | 0.120 | 0.091 | 108 | 157 | 0.050 |
| IL | PEORIA CO | 182,827 | 4.7 | 0.02 | . | 0.088 | 0.073 | 56 | 76 | 0.039 |
| IL | RANDOLPH CO | 34,583 | . | . | . | 0.086 | 0.072 | 105 | 90 | 0.047 |
| IL | ROCK ISLAND CO | 148,723 | . | 0.02 | . | 0.079 | 0.066 | 43 | 47 | 0.011 |
| IL | ST CLAIR CO | 262,852 | . | 0.18 | 0.0191 | 0.098 | 0.080 | 57 | 58 | 0.063 |
| IL | SANGAMON CO | 178,386 | 2.1 | . | . | 0.085 | 0.071 | 44 | 44 | 0.043 |
| IL | TAZEWELL CO | 123,692 | . | . | . | . | . | 52 | 53 | 0.044 |
| IL | WABASH CO | 13,111 | . | . | . | . | . | . | . | 0.041 |
| IL | WILL CO | 357,313 | 1.0 | 0.02 | 0.0093 | 0.083 | 0.074 | 59 | 66 | 0.021 |
| IL | WINNEBAGO CO | 252,913 | 3.7 | 0.03 | . | 0.084 | 0.073 | 62 | 73 | . |
| IN | ALLEN CO | 300,836 | 6.3 | 0.03 | . | 0.095 | 0.087 | 46 | 50 | . |
| IN | CLARK CO | 87,777 | . | . | . | 0.125 | 0.097 | 56 | 72 | . |
| IN | DAVISS CO | 27,533 | . | . | . | . | . | . | . | 0.038 |
| IN | DEARBORN CO | 38,835 | . | . | . | . | . | 94 | 111 | 0.045 |
| IN | DE KALB CO | 35,324 | 0.6 | 0.01 | . | . | . | 77 | 80 | 0.014 |
| IN | DELAWARE CO | 119,659 | . | 0.90 | . | . | . | . | . | . |
| IN | DUBOIS CO | 36,616 | . | . | . | . | . | 49 | 71 | . |
| IN | ELKHART CO | 156,198 | . | . | . | 0.108 | 0.089 | . | . | . |
| IN | FLOYD CO | 64,404 | . | . | . | 0.127 | 0.084 | . | . | 0.038 |
| IN | FOUNTAIN CO | 17,808 | . | . | . | . | . | . | . | 0.042 |
| IN | GIBSON CO | 31,913 | . | . | . | . | . | . | . | 0.075 |
| IN | HAMILTON CO | 108,936 | . | . | . | 0.114 | 0.095 | . | . | . |
| IN | HANCOCK CO | 45,527 | . | . | . | 0.109 | 0.088 | . | . | . |
| IN | JASPER CO | 24,960 | . | . | . | . | . | 42 | 50 | 0.016 |
| IN | JEFFERSON CO | 29,797 | . | . | . | . | . | . | . | 0.024 |
| IN | JOHNSON CO | 88,109 | . | . | . | 0.102 | 0.084 | . | . | . |
| IN | LAKE CO | 475,594 | 3.8 | 0.13 | . | 0.116 | 0.094 | 138 | 132 | 0.032 |
| IN | LA PORTE CO | 107,066 | . | 0.02 | . | 0.120 | 0.096 | 46 | 46 | 0.028 |
| IN | LAWRENCE CO | 42,836 | . | . | . | 0.100 | 0.087 | . | . | . |
| IN | MADISON CO | 130,669 | . | . | . | 0.091 | 0.082 | 45 | 49 | . |
| IN | MARION CO | 797,159 | 3.9 | 0.08 | 0.0150 | 0.106 | 0.090 | 54 | 64 | 0.030 |
| IN | MORGAN CO | 55,920 | . | . | . | 0.103 | 0.088 | . | . | 0.023 |
| IN | PERRY CO | 19,107 | . | . | . | . | . | . | . | 0.032 |
| IN | PIKE CO | 12,509 | . | . | . | . | . | . | . | 0.037 |
| IN | PORTER CO | 128,932 | . | . | . | 0.122 | 0.091 | 76 | 62 | 0.027 |
| IN | POSEY CO | 25,968 | . | . | . | 0.099 | 0.087 | . | . | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|------------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| IN | ST JOSEPH CO | 247,052 | . | . | 0.0124 | 0.117 | 0.091 | 41 | 48 | . |
| IN | SPENCER CO | 19,490 | . | . | . | . | . | . | . | 0.053 |
| IN | SULLIVAN CO | 18,993 | . | . | . | . | . | . | . | 0.021 |
| IN | VANDEBURGH CO | 165,058 | 5.0 | . | . | 0.114 | 0.093 | 67 | 70 | 0.053 |
| IN | VERMILLION CO | 16,773 | . | . | . | . | . | 49 | 50 | . |
| IN | VIGO CO | 106,107 | 2.5 | . | . | 0.096 | 0.083 | 61 | 63 | 0.025 |
| IN | WARRICK CO | 44,920 | . | . | . | 0.109 | 0.095 | . | . | 0.083 |
| IN | WAYNE CO | 71,951 | . | . | . | . | . | . | . | 0.030 |
| IA | BLACK HAWK CO | 123,798 | . | . | . | . | . | 53 | 65 | . |
| IA | CERRO GORDO CO | 46,733 | . | . | . | . | . | 103 | 94 | 0.078 |
| IA | CLINTON CO | 51,040 | . | . | . | . | . | 73 | 71 | 0.029 |
| IA | DELAWARE CO | 18,035 | . | . | . | . | . | 48 | 53 | . |
| IA | DUBUQUE CO | 86,403 | . | . | . | . | . | . | . | 0.017 |
| IA | EMMET CO | 11,569 | . | . | . | . | . | 44 | 44 | . |
| IA | HARRISON CO | 14,730 | . | . | . | 0.079 | 0.068 | . | . | . |
| IA | LEE CO | 38,687 | . | . | . | . | . | . | . | 0.043 |
| IA | LINN CO | 168,767 | 2.4 | . | . | 0.075 | 0.065 | 50 | 50 | 0.073 |
| IA | MUSCATINE CO | 39,907 | . | . | . | . | . | 54 | 66 | 0.086 |
| IA | PALO ALTO CO | 10,669 | . | . | . | 0.061 | . | . | . | . |
| IA | POLK CO | 327,140 | 3.8 | . | . | 0.075 | 0.063 | 126 | 126 | . |
| IA | POTTAWATTAMIE CO | 82,628 | . | 0.19 | . | . | . | . | . | . |
| IA | SCOTT CO | 150,979 | . | . | . | 0.089 | 0.072 | 150 | 160 | 0.020 |
| IA | STORY CO | 74,252 | . | . | . | 0.087 | 0.074 | . | . | . |
| IA | UNION CO | 12,750 | . | . | . | . | . | 56 | 72 | . |
| IA | VAN BUREN CO | 7,676 | . | . | . | 0.079 | 0.065 | . | . | 0.008 |
| IA | WARREN CO | 36,033 | . | . | . | 0.074 | 0.057 | . | . | . |
| IA | WOODBURY CO | 98,276 | . | . | . | . | . | 59 | 102 | . |
| KS | CLOUD CO | 11,023 | . | 0.01 | . | . | . | 31 | 36 | . |
| KS | FORD CO | 27,463 | . | 0.01 | . | . | . | 38 | 96 | . |
| KS | GREELEY CO | 1,774 | . | 0.01 | . | . | . | . | . | . |
| KS | JOHNSON CO | 355,054 | . | 0.01 | . | . | . | 47 | 72 | . |
| KS | KEARNEY CO | 4,027 | . | . | . | . | . | 117 | 125 | . |
| KS | MIAMI CO | 23,466 | . | . | . | 0.079 | . | . | . | . |
| KS | MORTON CO | 3,480 | . | 0.01 | . | . | . | . | . | . |
| KS | NORTON CO | 5,947 | . | 0.20 | . | . | . | . | . | . |
| KS | PAWNEE CO | 7,555 | 1.4 | . | . | 0.080 | 0.071 | 56 | 67 | 0.004 |
| KS | SEDGWICK CO | 403,662 | 5.3 | 0.01 | . | 0.093 | 0.079 | 57 | 71 | 0.007 |
| KS | SHAWNEE CO | 160,976 | . | 0.01 | . | . | . | 53 | 60 | . |
| KS | SHERMAN CO | 6,926 | . | 0.01 | . | . | . | 52 | 57 | . |
| KS | WYANDOTTE CO | 161,993 | 2.5 | 0.45 | 0.0198 | 0.106 | 0.081 | 75 | 75 | 0.014 |
| KY | BELL CO | 31,506 | 4.1 | . | . | 0.085 | 0.073 | 64 | 68 | . |
| KY | BOONE CO | 57,589 | . | . | . | 0.100 | 0.081 | . | . | . |
| KY | BOYD CO | 51,150 | 3.8 | . | 0.0145 | 0.110 | 0.086 | 94 | 105 | 0.034 |
| KY | BULLITT CO | 47,567 | . | . | 0.0125 | 0.112 | 0.086 | . | . | . |
| KY | CAMPBELL CO | 83,866 | . | . | 0.0197 | 0.111 | 0.089 | 61 | 69 | 0.029 |
| KY | CHRISTIAN CO | 68,941 | . | . | . | 0.099 | 0.082 | . | . | . |
| KY | DAVIESS CO | 87,189 | 1.0 | . | 0.0119 | 0.108 | 0.087 | 59 | 56 | 0.027 |
| KY | EDMONSON CO | 10,357 | . | . | . | 0.104 | . | . | . | . |
| KY | FAYETTE CO | 225,366 | 5.2 | . | 0.0135 | 0.096 | 0.082 | 62 | 58 | 0.016 |
| KY | FLOYD CO | 43,586 | . | . | . | . | . | 38 | 58 | . |
| KY | GRAVES CO | 33,550 | . | . | . | 0.101 | 0.077 | . | . | . |
| KY | GREENUP CO | 36,742 | . | 0.02 | . | 0.114 | 0.078 | . | . | 0.022 |
| KY | HANCOCK CO | 7,864 | . | . | . | 0.104 | 0.085 | . | . | 0.023 |
| KY | HARDIN CO | 89,240 | . | . | . | 0.083 | 0.071 | 38 | 44 | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|-------------------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| KY | HARLAN CO | 36,574 | . | . | . | . | . | 50 | 58 | . |
| KY | HENDERSON CO | 43,044 | 2.3 | . | 0.0161 | 0.100 | 0.082 | 59 | 58 | 0.036 |
| KY | JEFFERSON CO | 664,937 | 6.3 | 0.02 | 0.0199 | 0.122 | 0.091 | 98 | 133 | 0.037 |
| KY | JESSAMINE CO | 30,508 | . | . | . | 0.099 | 0.079 | . | . | . |
| KY | KENTON CO | 142,031 | 2.7 | . | 0.0182 | 0.110 | 0.084 | 55 | 52 | . |
| KY | LAWRENCE CO | 13,998 | . | . | . | 0.082 | 0.065 | 50 | 50 | . |
| KY | LIVINGSTON CO | 9,062 | . | . | . | 0.112 | 0.093 | 37 | 49 | 0.019 |
| KY | MC CRACKEN CO | 62,879 | 2.3 | . | 0.0120 | 0.109 | 0.085 | 57 | 64 | 0.017 |
| KY | MC LEAN CO | 9,628 | . | . | . | 0.103 | 0.083 | . | . | . |
| KY | MADISON CO | 57,508 | . | . | . | . | . | 47 | 54 | . |
| KY | MARSHALL CO | 27,205 | . | . | . | . | . | 71 | 83 | . |
| KY | OLDHAM CO | 33,263 | . | . | . | 0.126 | 0.085 | . | . | . |
| KY | PERRY CO | 30,283 | . | . | . | 0.073 | 0.062 | 43 | 62 | . |
| KY | PIKE CO | 72,583 | . | . | . | 0.076 | 0.064 | 42 | 47 | . |
| KY | PULASKI CO | 49,489 | . | . | . | 0.090 | 0.073 | 43 | 47 | . |
| KY | SCOTT CO | 23,867 | . | . | . | 0.084 | 0.072 | . | . | . |
| KY | SIMPSON CO | 15,145 | . | . | 0.0110 | 0.115 | 0.087 | . | . | . |
| KY | TRIGG CO | 10,361 | . | . | . | 0.106 | . | . | . | . |
| KY | WARREN CO | 76,673 | . | . | . | . | . | 44 | 52 | . |
| KY | WHITLEY CO | 33,326 | . | . | . | . | . | 52 | 57 | . |
| KY | WOODFORD CO | 19,955 | . | 0.02 | . | . | . | . | . | . |
| LA | ASCENSION PAR | 58,214 | . | . | . | 0.127 | 0.087 | . | . | . |
| LA | BEAUREGARD PAR | 30,083 | . | . | 0.0054 | 0.117 | 0.079 | . | . | . |
| LA | BOSSIER PAR | 86,088 | . | . | . | 0.103 | 0.083 | 70 | 99 | 0.007 |
| LA | CADDO PAR | 248,253 | . | . | . | 0.099 | 0.084 | 67 | 93 | . |
| LA | CALCASIEU PAR | 168,134 | . | . | 0.0055 | 0.128 | 0.090 | 79 | 89 | 0.012 |
| LA | EAST BATON ROUGE PAR | 380,105 | 5.4 | 0.06 | 0.0202 | 0.126 | 0.099 | 87 | 93 | 0.019 |
| LA | GRANT PAR | 17,526 | . | . | . | 0.091 | 0.075 | . | . | . |
| LA | IBERVILLE PAR | 31,049 | . | . | 0.0126 | 0.126 | 0.097 | 50 | 57 | . |
| LA | JEFFERSON PAR | 448,306 | . | . | 0.0105 | 0.099 | 0.080 | . | . | . |
| LA | LAFAYETTE PAR | 164,762 | . | . | . | 0.105 | 0.078 | 70 | 87 | . |
| LA | LAFOURCHE PAR | 85,860 | . | . | . | 0.103 | 0.079 | . | . | . |
| LA | LIVINGSTON PAR | 70,526 | . | . | 0.0057 | 0.127 | 0.089 | . | . | . |
| LA | ORLEANS PAR | 496,938 | 3.3 | 0.01 | 0.0181 | 0.088 | 0.066 | 94 | 100 | . |
| LA | OUACHITA PAR | 142,191 | . | . | . | 0.086 | 0.073 | 78 | 102 | 0.009 |
| LA | POINTE COUPEE PAR | 22,540 | . | . | 0.0063 | 0.120 | 0.089 | . | . | . |
| LA | RAPIDES PAR | 131,556 | . | . | . | . | . | 76 | 92 | . |
| LA | ST BERNARD PAR | 66,631 | . | . | . | 0.092 | 0.076 | . | . | 0.017 |
| LA | ST CHARLES PAR | 42,437 | . | . | . | 0.108 | 0.084 | 78 | 82 | . |
| LA | ST JAMES PAR | 20,879 | . | . | 0.0113 | 0.103 | 0.078 | . | . | . |
| LA | ST JOHN THE BAPTIST PAR | 39,996 | . | 0.05 | . | 0.108 | 0.083 | . | . | . |
| LA | ST MARY PAR | 58,086 | . | . | . | 0.101 | 0.081 | . | . | . |
| LA | WEST BATON ROUGE PAR | 19,419 | . | 0.04 | 0.0134 | 0.113 | 0.084 | 70 | 70 | 0.027 |
| ME | ANDROSCOGGIN CO | 105,259 | . | . | . | . | . | 48 | 54 | 0.017 |
| ME | AROOSTOOK CO | 86,936 | . | . | . | . | . | 57 | 56 | 0.021 |
| ME | CUMBERLAND CO | 243,135 | . | . | . | 0.130 | 0.103 | 81 | 87 | 0.023 |
| ME | FRANKLIN CO | 29,008 | . | . | . | . | . | 33 | 33 | . |
| ME | HANCOCK CO | 46,948 | . | . | . | 0.114 | 0.085 | 74 | 78 | . |
| ME | KENNEBEC CO | 115,904 | . | . | . | 0.102 | 0.076 | 81 | 88 | . |
| ME | KNOX CO | 36,310 | . | . | . | 0.119 | 0.090 | 53 | 53 | . |
| ME | OXFORD CO | 52,602 | . | . | . | 0.067 | 0.057 | 42 | 42 | 0.012 |
| ME | PENOBSCOT CO | 146,601 | . | . | . | 0.094 | 0.070 | 52 | 52 | . |
| ME | SAGadahoc CO | 33,535 | . | . | . | 0.125 | 0.098 | . | . | . |
| ME | YORK CO | 164,587 | . | . | 0.0109 | 0.125 | 0.101 | 33 | 59 | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|-------------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| MD | ALLEGANY CO | 74,946 | . | . | . | . | . | 56 | 60 | 0.020 |
| MD | ANNE ARUNDEL CO | 427,239 | . | . | . | 0.144 | 0.119 | 58 | 76 | 0.023 |
| MD | BALTIMORE CO | 692,134 | . | . | . | 0.131 | 0.102 | 53 | 71 | . |
| MD | CALVERT CO | 51,372 | . | . | . | 0.116 | 0.087 | . | . | . |
| MD | CARROLL CO | 123,372 | . | . | . | 0.115 | 0.093 | . | . | . |
| MD | CECIL CO | 71,347 | . | . | . | 0.153 | 0.122 | 50 | 51 | . |
| MD | CHARLES CO | 101,154 | . | . | . | 0.125 | 0.102 | . | . | . |
| MD | GARRETT CO | 28,138 | . | . | . | . | . | 51 | 53 | . |
| MD | HARFORD CO | 182,132 | . | . | . | 0.158 | 0.116 | . | . | . |
| MD | KENT CO | 17,842 | . | . | . | 0.139 | 0.105 | . | . | . |
| MD | MONTGOMERY CO | 757,027 | . | . | . | 0.117 | 0.096 | . | . | . |
| MD | PRINCE GEORGES CO | 729,268 | 6.8 | . | . | 0.139 | 0.110 | 52 | 72 | . |
| MD | WICOMICO CO | 74,339 | . | . | . | . | . | 42 | 49 | . |
| MD | BALTIMORE | 736,014 | 4.9 | 0.01 | 0.0256 | 0.129 | 0.107 | 63 | 94 | 0.026 |
| MA | BARNSTABLE CO | 186,605 | . | . | . | 0.116 | 0.100 | . | . | . |
| MA | BERKSHIRE CO | 139,352 | . | . | . | 0.087 | . | . | . | . |
| MA | BRISTOL CO | 506,325 | . | . | 0.0087 | 0.123 | 0.093 | 43 | 58 | 0.024 |
| MA | ESSEX CO | 670,080 | . | . | 0.0147 | 0.118 | 0.091 | 36 | 42 | 0.029 |
| MA | HAMPDEN CO | 456,310 | 5.3 | . | 0.0218 | 0.126 | 0.092 | 58 | 69 | 0.021 |
| MA | HAMPSHIRE CO | 146,568 | . | . | 0.0088 | 0.142 | 0.110 | 40 | 40 | 0.023 |
| MA | MIDDLESEX CO | 1,398,468 | 3.6 | . | . | 0.114 | 0.092 | 41 | 43 | 0.035 |
| MA | NORFOLK CO | 616,087 | . | . | . | . | . | 39 | 62 | . |
| MA | PLYMOUTH CO | 435,276 | . | . | . | 0.095 | 0.071 | . | . | . |
| MA | SUFFOLK CO | 663,906 | 4.7 | . | 0.0304 | 0.092 | 0.075 | 59 | 86 | 0.049 |
| MA | WORCESTER CO | 709,705 | 3.4 | . | 0.0192 | 0.106 | 0.092 | 44 | 53 | 0.021 |
| MI | ALLEGAN CO | 90,509 | . | . | . | 0.117 | 0.096 | . | . | . |
| MI | BENZIE CO | 12,200 | . | . | . | 0.105 | 0.081 | . | . | . |
| MI | BERRIEN CO | 161,378 | . | . | . | 0.119 | 0.099 | . | . | . |
| MI | CALHOUN CO | 135,982 | . | . | . | . | . | 48 | 49 | . |
| MI | CASS CO | 49,477 | . | . | . | 0.102 | 0.090 | . | . | . |
| MI | CLINTON CO | 57,883 | . | . | . | 0.089 | 0.078 | . | . | . |
| MI | DELTA CO | 37,780 | . | . | . | . | . | . | . | 0.009 |
| MI | GENESEE CO | 430,459 | . | 0.01 | . | 0.099 | 0.084 | 41 | 44 | 0.012 |
| MI | HURON CO | 34,951 | . | . | . | 0.101 | 0.079 | . | . | . |
| MI | INGHAM CO | 281,912 | . | . | . | 0.086 | 0.077 | . | . | . |
| MI | KALAMAZOO CO | 223,411 | . | . | . | 0.096 | 0.085 | . | . | . |
| MI | KENT CO | 500,631 | 2.4 | 0.01 | . | 0.099 | 0.082 | 60 | 57 | 0.008 |
| MI | LENAWEE CO | 91,476 | . | . | . | 0.089 | 0.076 | . | . | . |
| MI | MACOMB CO | 717,400 | 3.0 | . | 0.0124 | 0.123 | 0.091 | . | . | 0.018 |
| MI | MARQUETTE CO | 70,887 | . | . | . | . | . | 47 | 55 | . |
| MI | MASON CO | 25,537 | . | . | . | 0.118 | 0.091 | . | . | . |
| MI | MONROE CO | 133,600 | . | . | . | . | . | 48 | 55 | . |
| MI | MUSKEGON CO | 158,983 | . | 0.01 | . | 0.113 | 0.086 | . | . | . |
| MI | OAKLAND CO | 1,083,592 | 2.6 | . | . | 0.088 | 0.076 | . | . | . |
| MI | OTTAWA CO | 187,768 | . | . | . | 0.103 | 0.086 | . | . | . |
| MI | ST CLAIR CO | 145,607 | . | . | . | 0.118 | 0.088 | . | . | 0.043 |
| MI | WASHTENAW CO | 282,937 | . | . | . | 0.088 | 0.075 | . | . | . |
| MI | WAYNE CO | 2,111,687 | 4.9 | 0.09 | 0.0260 | 0.114 | 0.088 | 106 | 131 | 0.044 |
| MN | ANOKA CO | 243,641 | 2.4 | . | . | 0.091 | 0.078 | . | . | . |
| MN | CARLTON CO | 29,259 | . | . | . | . | . | 44 | 44 | . |
| MN | DAKOTA CO | 275,227 | 1.1 | 0.43 | 0.0135 | 0.081 | 0.070 | . | . | 0.020 |
| MN | HENNEPIN CO | 1,032,431 | 3.2 | 0.01 | 0.0230 | . | . | 77 | 74 | 0.027 |
| MN | KOOCHICHING CO | 16,299 | . | . | . | . | . | . | . | 0.012 |
| MN | LAKE CO | 10,415 | . | . | . | 0.069 | 0.063 | 25 | 28 | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|--------------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| MN | OLMSTED CO | 106,470 | . | . | . | . | . | 38 | 39 | . |
| MN | RAMSEY CO | 485,765 | 5.4 | 0.02 | 0.0170 | . | . | 68 | 72 | 0.016 |
| MN | ST LOUIS CO | 198,213 | 3.2 | . | . | 0.080 | 0.071 | 47 | 63 | . |
| MN | SHERBURNE CO | 41,945 | . | . | . | . | . | . | . | 0.007 |
| MN | STEARNS CO | 118,791 | 4.0 | . | . | . | . | . | . | . |
| MN | WASHINGTON CO | 145,896 | . | . | . | 0.059 | . | . | . | 0.026 |
| MN | WRIGHT CO | 68,710 | . | . | . | . | . | . | . | 0.008 |
| MS | ADAMS CO | 35,356 | . | . | . | 0.101 | 0.077 | . | . | . |
| MS | CHOCTAW CO | 9,071 | 1.1 | 0.03 | 0.0035 | 0.081 | 0.071 | 55 | 73 | 0.007 |
| MS | COAHOMA CO | 31,665 | . | . | . | . | . | 51 | 69 | . |
| MS | DE SOTO CO | 67,910 | . | . | . | 0.122 | 0.082 | . | . | . |
| MS | HANCOCK CO | 31,760 | . | . | . | 0.092 | 0.078 | . | . | . |
| MS | HARRISON CO | 165,365 | . | . | . | . | . | . | . | 0.025 |
| MS | HINDS CO | 254,441 | 3.8 | . | . | 0.097 | 0.079 | 111 | 91 | 0.007 |
| MS | JACKSON CO | 115,243 | . | . | . | 0.114 | 0.095 | 57 | 59 | 0.016 |
| MS | JONES CO | 62,031 | . | . | . | . | . | 59 | 73 | . |
| MS | LAUDERDALE CO | 75,555 | . | . | . | 0.092 | 0.073 | . | . | . |
| MS | LEE CO | 65,581 | . | . | 0.0094 | 0.096 | 0.079 | 42 | 43 | 0.006 |
| MS | MADISON CO | 53,794 | . | . | . | 0.093 | 0.075 | . | . | . |
| MS | SHARKEY CO | 7,066 | . | . | . | 0.092 | 0.077 | . | . | . |
| MS | WARREN CO | 47,880 | . | . | . | 0.097 | 0.077 | 58 | 75 | . |
| MS | WASHINGTON CO | 67,935 | . | . | . | . | . | 57 | 78 | . |
| MO | AUDRAIN CO | 23,599 | . | . | . | . | . | 32 | 35 | . |
| MO | BUCHANAN CO | 83,083 | . | . | . | . | . | 93 | 88 | 0.147 |
| MO | CLAY CO | 153,411 | 4.7 | . | 0.0120 | 0.121 | 0.098 | . | . | 0.010 |
| MO | GREENE CO | 207,949 | 4.6 | . | 0.0114 | 0.084 | 0.068 | 95 | 123 | 0.054 |
| MO | HOLT CO | 6,034 | . | 1.11 | . | . | . | . | . | . |
| MO | HOWELL CO | 31,447 | . | . | . | . | . | 694 | 694 | . |
| MO | IRON CO | 10,726 | . | 1.28 | . | . | . | . | . | 0.073 |
| MO | JACKSON CO | 633,232 | 6.7 | 0.01 | . | 0.084 | 0.072 | 54 | 78 | 0.021 |
| MO | JEFFERSON CO | 171,380 | . | 8.53 | . | 0.118 | 0.083 | 39 | 41 | 0.045 |
| MO | MONROE CO | 9,104 | . | . | . | 0.093 | 0.080 | 31 | 37 | 0.014 |
| MO | PLATTE CO | 57,867 | . | . | 0.0104 | 0.111 | 0.090 | . | . | 0.008 |
| MO | ST CHARLES CO | 212,907 | . | . | 0.0107 | 0.123 | 0.090 | . | . | 0.034 |
| MO | STE GENEVIEVE CO | 16,037 | . | . | . | 0.098 | 0.080 | 61 | 67 | . |
| MO | ST LOUIS CO | 993,529 | 3.8 | 0.04 | 0.0215 | 0.119 | 0.087 | 42 | 42 | 0.041 |
| MO | TANEY CO | 25,561 | 3.3 | . | . | . | . | . | . | . |
| MO | ST LOUIS | 396,685 | 5.0 | . | 0.0248 | 0.105 | 0.084 | 75 | 68 | 0.032 |
| MT | BIG HORN CO | 11,337 | . | . | . | . | . | 77 | 96 | . |
| MT | BROADWATER CO | 3,318 | . | . | . | . | . | 63 | 63 | . |
| MT | CASCADE CO | 77,691 | 6.4 | . | . | . | . | . | . | 0.012 |
| MT | FERGUS CO | 12,083 | . | . | . | . | . | 24 | 24 | . |
| MT | FLATHEAD CO | 59,218 | 4.9 | . | . | 0.045 | . | 136 | 115 | . |
| MT | GALLATIN CO | 50,463 | . | . | . | . | . | 69 | 69 | . |
| MT | JEFFERSON CO | 7,939 | . | . | . | . | . | 56 | 67 | . |
| MT | LAKE CO | 21,041 | . | . | . | . | . | 71 | 58 | . |
| MT | LEWIS AND CLARK CO | 47,495 | . | 1.22 | . | . | . | 71 | 66 | . |
| MT | LINCOLN CO | 17,481 | . | . | . | . | . | 84 | 82 | . |
| MT | MADISON CO | 5,989 | . | . | . | . | . | 24 | 27 | . |
| MT | MISSOULA CO | 78,687 | 4.9 | . | . | . | . | 91 | 117 | . |
| MT | PARK CO | 14,562 | . | . | . | . | . | 16 | 17 | . |
| MT | PHILLIPS CO | 5,163 | . | . | . | . | . | 31 | 34 | . |
| MT | RAVALLI CO | 25,010 | . | . | . | . | . | 56 | 61 | . |
| MT | ROSEBUD CO | 10,505 | . | . | . | . | . | 106 | 106 | 0.004 |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|-----------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| MT | SANDERS CO | 8,669 | . | . | . | . | . | 76 | 76 | . |
| MT | SILVER BOW CO | 33,941 | . | . | . | . | . | 56 | 57 | . |
| MT | STILLWATER CO | 6,536 | . | . | . | . | . | 19 | 27 | . |
| MT | YELLOWSTONE CO | 113,419 | 6.1 | . | . | . | . | 95 | 95 | 0.043 |
| NE | BUFFALO CO | 37,447 | . | . | . | . | . | 55 | 107 | . |
| NE | CASS CO | 21,318 | . | . | . | . | . | 98 | 102 | . |
| NE | DAWSON CO | 19,940 | . | . | . | . | . | 57 | 68 | . |
| NE | DOUGLAS CO | 416,444 | 5.4 | 1.95 | . | 0.080 | 0.071 | 98 | 102 | 0.050 |
| NE | LANCASTER CO | 213,641 | 6.9 | . | . | 0.063 | 0.054 | 44 | 57 | . |
| NV | CHURCHILL CO | 17,938 | . | . | . | . | . | 53 | 53 | . |
| NV | CLARK CO | 741,459 | 8.1 | . | . | 0.091 | 0.079 | 186 | 138 | . |
| NV | DOUGLAS CO | 27,637 | 1.7 | . | 0.0091 | 0.083 | 0.068 | 49 | 59 | . |
| NV | ELKO CO | 33,530 | . | . | . | . | . | 48 | 49 | . |
| NV | LANDER CO | 6,266 | . | . | . | . | . | 64 | 83 | . |
| NV | PERSHING CO | 4,336 | . | . | . | . | . | 69 | 99 | . |
| NV | WASHOE CO | 254,667 | 7.7 | . | . | 0.084 | 0.069 | 115 | 134 | . |
| NV | WHITE PINE CO | 9,264 | . | . | . | 0.081 | 0.074 | 25 | 25 | . |
| NV | CARSON CITY | 40,443 | 4.4 | . | . | 0.077 | 0.073 | 53 | 80 | . |
| NH | BELKNAP CO | 49,216 | . | . | . | 0.089 | 0.067 | . | . | . |
| NH | CARROLL CO | 35,410 | . | . | . | 0.075 | 0.065 | . | . | . |
| NH | CHESHIRE CO | 70,121 | . | . | . | 0.092 | 0.075 | 47 | 53 | 0.022 |
| NH | COOS CO | 34,828 | . | . | . | 0.094 | . | 81 | 108 | 0.029 |
| NH | GRAFTON CO | 74,929 | . | . | . | 0.073 | 0.064 | . | . | . |
| NH | HILLSBOROUGH CO | 336,073 | 5.3 | . | 0.0155 | 0.115 | 0.094 | 42 | 61 | 0.036 |
| NH | MERRIMACK CO | 120,005 | . | . | . | 0.102 | 0.075 | 45 | 52 | 0.053 |
| NH | ROCKINGHAM CO | 245,845 | . | . | 0.0133 | 0.137 | 0.102 | 37 | 48 | 0.018 |
| NH | STRAFFORD CO | 104,233 | . | . | . | 0.101 | 0.080 | 33 | 48 | . |
| NH | SULLIVAN CO | 38,592 | . | . | . | 0.094 | 0.075 | 32 | 56 | 0.019 |
| NJ | ATLANTIC CO | 224,327 | 3.5 | . | . | 0.131 | 0.106 | . | . | 0.011 |
| NJ | BERGEN CO | 825,380 | 6.1 | . | 0.0277 | 0.120 | 0.096 | 53 | 78 | 0.024 |
| NJ | BURLINGTON CO | 395,066 | 4.3 | . | . | . | . | . | . | 0.023 |
| NJ | CAMDEN CO | 502,824 | 3.3 | 0.06 | 0.0217 | 0.137 | 0.117 | 58 | 89 | 0.030 |
| NJ | CUMBERLAND CO | 138,053 | . | . | . | 0.115 | 0.104 | . | . | 0.018 |
| NJ | ESSEX CO | 778,206 | 3.8 | . | 0.0306 | 0.109 | 0.097 | 81 | 90 | 0.024 |
| NJ | GLOUCESTER CO | 230,082 | . | . | . | 0.128 | 0.105 | 45 | 69 | 0.019 |
| NJ | HUDSON CO | 553,099 | 6.7 | . | 0.0257 | 0.119 | 0.105 | 77 | 103 | 0.031 |
| NJ | HUNTERDON CO | 107,776 | . | . | . | 0.120 | 0.103 | . | . | . |
| NJ | MERCER CO | 325,824 | . | . | 0.0166 | 0.126 | 0.106 | 59 | 87 | . |
| NJ | MIDDLESEX CO | 671,780 | 3.8 | 0.08 | 0.0184 | 0.139 | 0.106 | . | . | 0.019 |
| NJ | MONMOUTH CO | 553,124 | 3.2 | . | . | 0.132 | 0.095 | . | . | . |
| NJ | MORRIS CO | 421,353 | 4.9 | . | 0.0114 | 0.111 | 0.097 | . | . | 0.027 |
| NJ | OCEAN CO | 433,203 | 4.1 | . | . | 0.150 | 0.113 | . | . | . |
| NJ | PASSAIC CO | 453,060 | . | . | . | . | . | 65 | 76 | . |
| NJ | SALEM CO | 65,294 | . | 0.03 | . | . | . | . | . | . |
| NJ | UNION CO | 493,819 | 5.1 | . | 0.0411 | 0.108 | 0.089 | 61 | 91 | 0.022 |
| NJ | WARREN CO | 91,607 | . | . | . | . | . | 54 | 83 | . |
| NM | BERNALILLO CO | 480,577 | 5.9 | . | 0.0187 | 0.091 | 0.071 | 93 | 97 | . |
| NM | CHAVES CO | 57,849 | . | . | . | . | . | 30 | 34 | . |
| NM | DONA ANA CO | 135,510 | 4.8 | 0.08 | 0.0096 | 0.102 | 0.077 | 144 | 135 | 0.022 |
| NM | EDDY CO | 48,605 | . | . | 0.0061 | 0.066 | . | . | . | 0.007 |
| NM | GRANT CO | 27,676 | . | . | . | . | . | 49 | 52 | 0.017 |
| NM | HIDALGO CO | 5,958 | . | . | . | . | . | 28 | 83 | 0.051 |
| NM | LEA CO | 55,765 | . | . | . | . | . | 38 | 39 | . |
| NM | LUNA CO | 18,110 | . | . | . | . | . | 35 | 40 | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|----------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| NM | OTERO CO | 51,928 | . | . | . | . | . | 61 | 71 | . |
| NM | SANDOVAL CO | 63,319 | 1.7 | . | 0.0083 | 0.088 | 0.076 | 51 | 53 | . |
| NM | SAN JUAN CO | 91,605 | 2.7 | . | 0.0098 | 0.073 | 0.067 | 34 | 79 | 0.061 |
| NM | SANTA FE CO | 98,928 | 2.1 | . | . | . | . | 33 | 33 | . |
| NM | TAOS CO | 23,118 | . | . | . | . | . | 67 | 68 | . |
| NM | VALENCIA CO | 45,235 | . | . | . | 0.067 | 0.060 | . | . | . |
| NY | ALBANY CO | 292,594 | 2.7 | 0.03 | 0.0138 | 0.099 | 0.076 | 45 | 61 | 0.020 |
| NY | BRONX CO | 1,203,789 | 3.5 | . | 0.0352 | 0.123 | 0.096 | 55 | 75 | 0.043 |
| NY | BROOME CO | 212,160 | . | . | . | . | . | 48 | 53 | . |
| NY | CHAUTAUQUA CO | 141,895 | . | . | . | 0.105 | 0.087 | 49 | 56 | 0.039 |
| NY | CHEMUNG CO | 95,195 | . | . | . | 0.081 | 0.073 | . | . | 0.015 |
| NY | DUTCHESS CO | 259,462 | . | . | . | 0.111 | 0.089 | . | . | . |
| NY | ERIE CO | 968,532 | 3.3 | 0.04 | 0.0203 | 0.088 | 0.073 | 51 | 82 | 0.094 |
| NY | ESSEX CO | 37,152 | . | . | . | 0.097 | 0.082 | 33 | 42 | 0.007 |
| NY | GREENE CO | 44,739 | . | . | . | . | . | 38 | 51 | . |
| NY | HAMILTON CO | 5,279 | . | . | . | 0.091 | 0.078 | . | . | 0.007 |
| NY | HERKIMER CO | 65,797 | . | . | . | 0.084 | 0.072 | 33 | 36 | 0.006 |
| NY | JEFFERSON CO | 110,943 | . | . | . | 0.105 | 0.094 | . | . | . |
| NY | KINGS CO | 2,300,664 | 4.3 | 0.16 | . | . | . | 52 | 91 | 0.034 |
| NY | MADISON CO | 69,120 | . | . | . | 0.089 | 0.076 | . | . | 0.020 |
| NY | MONROE CO | 713,968 | 1.9 | . | . | 0.097 | 0.085 | 47 | 55 | 0.050 |
| NY | NASSAU CO | 1,287,348 | 4.7 | . | 0.0248 | . | . | 68 | 73 | 0.029 |
| NY | NEW YORK CO | 1,487,536 | 6.1 | 0.06 | 0.0399 | 0.121 | 0.082 | 101 | 105 | 0.042 |
| NY | NIAGARA CO | 220,756 | 1.4 | 0.03 | . | 0.093 | 0.081 | 45 | 50 | 0.025 |
| NY | ONEIDA CO | 250,836 | . | . | . | 0.085 | 0.074 | 44 | 49 | . |
| NY | ONONDAGA CO | 468,973 | 4.0 | . | . | 0.102 | 0.079 | 55 | 57 | 0.014 |
| NY | ORANGE CO | 307,647 | . | 0.28 | . | 0.102 | 0.088 | . | . | . |
| NY | PUTNAM CO | 83,941 | . | . | . | 0.119 | 0.095 | 39 | 43 | 0.014 |
| NY | QUEENS CO | 1,951,598 | . | . | . | 0.135 | 0.095 | . | . | 0.022 |
| NY | RENSSELAER CO | 154,429 | . | . | . | . | . | 39 | 43 | 0.014 |
| NY | RICHMOND CO | 378,977 | . | 0.02 | . | 0.156 | 0.122 | 57 | 89 | 0.024 |
| NY | ROCKLAND CO | 265,475 | . | . | . | . | . | 50 | 52 | . |
| NY | SARATOGA CO | 181,276 | . | . | . | 0.104 | 0.083 | 40 | 48 | . |
| NY | SCHENECTADY CO | 149,285 | 4.5 | . | . | 0.089 | 0.077 | 42 | 55 | 0.017 |
| NY | SUFFOLK CO | 1,321,864 | . | . | . | 0.137 | 0.106 | 39 | 43 | 0.029 |
| NY | ULSTER CO | 165,304 | . | . | . | 0.097 | 0.086 | 43 | 56 | 0.013 |
| NY | WAYNE CO | 89,123 | . | . | . | 0.101 | 0.085 | . | . | . |
| NY | WESTCHESTER CO | 874,866 | . | . | . | 0.115 | 0.096 | . | . | . |
| NC | ALAMANCE CO | 108,213 | . | . | . | . | . | 57 | 60 | . |
| NC | ALEXANDER CO | 27,544 | . | . | . | 0.099 | 0.080 | 60 | 100 | . |
| NC | BEAUFORT CO | 42,283 | . | . | . | . | . | 32 | 43 | 0.015 |
| NC | BUNCOMBE CO | 174,821 | . | . | . | 0.090 | 0.075 | 48 | 48 | . |
| NC | CABARRUS CO | 98,935 | . | . | . | . | . | 52 | 53 | . |
| NC | CALDWELL CO | 70,709 | . | . | . | 0.097 | 0.079 | . | . | . |
| NC | CAMDEN CO | 5,904 | . | . | . | 0.093 | 0.084 | . | . | . |
| NC | CASWELL CO | 20,693 | . | . | . | 0.117 | 0.095 | . | . | . |
| NC | CATAWBA CO | 118,412 | . | 0.04 | . | . | . | 47 | 55 | . |
| NC | CHATHAM CO | 38,759 | . | . | . | 0.106 | 0.089 | . | . | . |
| NC | CUMBERLAND CO | 274,566 | 6.0 | 0.05 | . | 0.098 | 0.085 | 48 | 59 | . |
| NC | DAVIDSON CO | 126,677 | . | . | . | . | . | 59 | 67 | . |
| NC | DAVIE CO | 27,859 | . | . | . | 0.105 | 0.092 | . | . | 0.018 |
| NC | DUPLIN CO | 39,995 | . | . | . | 0.092 | 0.078 | . | . | . |
| NC | DURHAM CO | 181,835 | 6.9 | . | . | 0.097 | 0.080 | 59 | 68 | . |
| NC | EDGECOMBE CO | 56,558 | . | . | . | 0.106 | 0.089 | 54 | 56 | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|----------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| NC | FORSYTH CO | 265,878 | 4.7 | . | 0.0173 | 0.115 | 0.093 | 61 | 73 | 0.023 |
| NC | FRANKLIN CO | 36,414 | . | . | . | 0.116 | 0.097 | . | . | . |
| NC | GASTON CO | 175,093 | 3.3 | . | . | . | . | 44 | 55 | . |
| NC | GRANVILLE CO | 38,345 | . | . | . | 0.116 | 0.099 | 42 | 47 | . |
| NC | GUILFORD CO | 347,420 | 4.8 | 0.00 | . | 0.104 | 0.084 | 60 | 69 | . |
| NC | HALIFAX CO | 55,516 | . | . | . | . | . | 55 | 61 | . |
| NC | HARNETT CO | 67,822 | . | . | . | . | . | 49 | 51 | . |
| NC | HAYWOOD CO | 46,942 | . | . | . | 0.106 | 0.087 | 49 | 70 | . |
| NC | HENDERSON CO | 69,285 | . | . | . | . | . | 44 | 53 | . |
| NC | JOHNSTON CO | 81,306 | . | . | . | 0.110 | 0.092 | . | . | . |
| NC | LINCOLN CO | 50,319 | . | . | . | 0.102 | 0.085 | . | . | 0.016 |
| NC | MC DOWELL CO | 35,681 | . | . | . | . | . | 49 | 61 | . |
| NC | MARTIN CO | 25,078 | . | . | . | 0.092 | 0.082 | . | . | . |
| NC | MECKLENBURG CO | 511,433 | 6.0 | . | 0.0176 | 0.120 | 0.105 | 61 | 68 | 0.016 |
| NC | MITCHELL CO | 14,433 | . | . | . | . | . | 56 | 58 | . |
| NC | NEW HANOVER CO | 120,284 | . | . | . | 0.102 | 0.083 | 39 | 41 | 0.028 |
| NC | NORTHAMPTON CO | 20,798 | . | . | . | 0.097 | 0.088 | . | . | 0.014 |
| NC | ONSLow CO | 149,838 | . | . | . | . | . | 46 | 52 | . |
| NC | ORANGE CO | 93,851 | 6.1 | . | . | . | . | . | . | . |
| NC | PASQUOTANK CO | 31,298 | . | . | . | . | . | 46 | 50 | . |
| NC | PERSON CO | 30,180 | . | . | . | 0.100 | 0.088 | . | . | . |
| NC | PITT CO | 107,924 | . | . | . | 0.122 | 0.097 | 42 | 51 | 0.008 |
| NC | ROBESON CO | 105,179 | . | . | . | . | . | 54 | 59 | . |
| NC | ROCKINGHAM CO | 86,064 | . | . | . | 0.109 | 0.089 | . | . | . |
| NC | ROWAN CO | 110,605 | . | . | . | 0.126 | 0.092 | 54 | 63 | 0.052 |
| NC | SWAIN CO | 11,268 | . | . | . | 0.081 | 0.070 | 38 | 47 | . |
| NC | WAKE CO | 423,380 | 6.6 | 0.00 | . | 0.112 | 0.097 | 59 | 59 | . |
| NC | WASHINGTON CO | 13,997 | . | 0.04 | . | . | . | . | . | . |
| NC | WATAUGA CO | 36,952 | . | . | . | . | . | 45 | 50 | . |
| NC | WAYNE CO | 104,666 | . | . | . | . | . | 49 | 54 | . |
| NC | WILSON CO | 66,061 | . | . | . | . | . | 38 | 60 | . |
| NC | YANCEY CO | 15,419 | . | . | . | 0.085 | 0.076 | . | . | . |
| ND | BILLINGS CO | 1,108 | . | . | . | . | . | . | . | 0.005 |
| ND | BURLEIGH CO | 60,131 | . | . | . | . | . | 26 | 27 | . |
| ND | CASS CO | 102,874 | . | . | 0.0080 | 0.074 | 0.067 | 63 | 67 | 0.008 |
| ND | DUNN CO | 4,005 | . | . | . | . | . | . | . | 0.005 |
| ND | GRAND FORKS CO | 70,683 | . | . | . | . | . | 64 | 82 | . |
| ND | MC KENZIE CO | 6,383 | . | . | . | 0.078 | 0.071 | . | . | 0.023 |
| ND | MC LEAN CO | 10,457 | . | . | . | . | . | . | . | 0.008 |
| ND | MERCER CO | 9,808 | . | . | 0.0042 | 0.071 | 0.064 | 30 | 32 | 0.027 |
| ND | MORTON CO | 23,700 | . | . | . | . | . | . | . | 0.060 |
| ND | OLIVER CO | 2,381 | . | . | 0.0029 | 0.073 | 0.062 | . | . | 0.010 |
| ND | STARK CO | 22,832 | . | . | . | . | . | 24 | 29 | . |
| ND | STEELE CO | 2,420 | . | . | 0.0026 | 0.067 | 0.062 | 37 | 48 | 0.004 |
| ND | WILLIAMS CO | 21,129 | . | . | . | . | . | 34 | 36 | 0.022 |
| OH | ADAMS CO | 25,371 | . | . | . | . | . | . | . | 0.029 |
| OH | ALLEN CO | 109,755 | . | . | . | 0.091 | 0.083 | 48 | 50 | 0.016 |
| OH | ASHTABULA CO | 99,821 | . | . | . | 0.101 | 0.090 | . | . | 0.029 |
| OH | ATHENS CO | 59,549 | . | . | . | . | . | 37 | 38 | . |
| OH | BELMONT CO | 71,074 | . | . | . | . | . | 46 | 49 | 0.033 |
| OH | BUTLER CO | 291,479 | . | 0.04 | . | 0.118 | 0.092 | 76 | 99 | 0.035 |
| OH | CLARK CO | 147,548 | . | . | . | 0.113 | 0.091 | . | . | 0.022 |
| OH | CLERMONT CO | 150,187 | . | . | . | 0.116 | 0.087 | . | . | 0.020 |
| OH | CLINTON CO | 35,415 | . | . | . | 0.114 | 0.095 | . | . | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|---------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| OH | COLUMBIANA CO | 108,276 | . | 0.04 | 0.0155 | . | . | 61 | 61 | 0.048 |
| OH | CUYAHOGA CO | 1,412,140 | 6.1 | 1.47 | 0.0281 | 0.104 | 0.082 | 133 | 117 | 0.034 |
| OH | DELAWARE CO | 66,929 | . | . | . | 0.099 | 0.087 | . | . | . |
| OH | FRANKLIN CO | 961,437 | 2.9 | 0.05 | . | 0.100 | 0.086 | 73 | 75 | 0.025 |
| OH | FULTON CO | 38,498 | . | 0.42 | . | . | . | . | . | . |
| OH | GEAUGA CO | 81,129 | . | . | . | 0.112 | 0.091 | . | . | . |
| OH | GREENE CO | 136,731 | . | . | . | 0.111 | 0.091 | 40 | 45 | . |
| OH | HAMILTON CO | 866,228 | 3.1 | 0.03 | 0.0279 | 0.124 | 0.093 | 78 | 81 | 0.038 |
| OH | HANCOCK CO | 65,536 | . | . | . | . | . | 48 | 48 | . |
| OH | JEFFERSON CO | 80,298 | 2.2 | . | 0.0172 | 0.088 | 0.078 | 70 | 63 | 0.051 |
| OH | KNOX CO | 47,473 | . | . | . | 0.099 | 0.088 | . | . | . |
| OH | LAKE CO | 215,499 | 2.2 | . | . | 0.121 | 0.094 | 57 | 57 | 0.057 |
| OH | LAWRENCE CO | 61,834 | . | . | . | 0.099 | 0.082 | 61 | 69 | 0.024 |
| OH | LICKING CO | 128,300 | . | . | . | 0.108 | 0.092 | 46 | 53 | . |
| OH | LOGAN CO | 42,310 | . | 0.25 | . | 0.099 | 0.087 | . | . | . |
| OH | LORAIN CO | 271,126 | . | . | . | 0.095 | 0.086 | 55 | 70 | 0.021 |
| OH | LUCAS CO | 462,361 | 1.9 | . | . | 0.106 | 0.085 | 61 | 60 | 0.023 |
| OH | MADISON CO | 37,068 | . | . | . | 0.104 | 0.089 | . | . | . |
| OH | MAHONING CO | 264,806 | . | . | . | 0.098 | 0.084 | 55 | 59 | 0.029 |
| OH | MEDINA CO | 122,354 | . | . | . | 0.105 | 0.089 | . | . | . |
| OH | MEIGS CO | 22,987 | . | . | . | . | . | . | . | 0.034 |
| OH | MIAMI CO | 93,182 | . | . | . | 0.104 | 0.087 | . | . | . |
| OH | MONROE CO | 15,497 | . | . | . | . | . | 55 | 64 | . |
| OH | MONTGOMERY CO | 573,809 | 4.0 | 0.04 | . | 0.097 | 0.088 | 63 | 67 | 0.032 |
| OH | MORGAN CO | 14,194 | . | . | . | . | . | . | . | 0.049 |
| OH | NOBLE CO | 11,336 | . | . | . | . | . | 65 | 67 | . |
| OH | OTTAWA CO | 40,029 | . | . | . | . | . | 51 | 51 | . |
| OH | PORTAGE CO | 142,585 | . | . | . | 0.096 | 0.084 | . | . | . |
| OH | PREBLE CO | 40,113 | . | . | . | 0.103 | 0.085 | . | . | . |
| OH | RICHLAND CO | 126,137 | . | . | . | . | . | 63 | 63 | . |
| OH | SANDUSKY CO | 61,963 | . | . | . | . | . | 98 | 145 | . |
| OH | SCIOTO CO | 80,327 | . | . | . | . | . | 63 | 70 | 0.026 |
| OH | SENECA CO | 59,733 | . | . | . | . | . | 61 | 61 | . |
| OH | STARK CO | 367,585 | 2.5 | . | . | 0.101 | 0.084 | 58 | 58 | 0.025 |
| OH | SUMMIT CO | 514,990 | 3.2 | 0.04 | . | 0.109 | 0.090 | 63 | 56 | 0.072 |
| OH | TRUMBULL CO | 227,813 | . | . | . | 0.110 | 0.091 | 53 | 57 | . |
| OH | TUSCARAWAS CO | 84,090 | . | . | . | . | . | . | . | 0.037 |
| OH | UNION CO | 31,969 | . | . | . | 0.075 | 0.061 | . | . | . |
| OH | WARREN CO | 113,909 | . | . | . | 0.124 | 0.094 | . | . | . |
| OH | WASHINGTON CO | 62,254 | . | . | . | 0.106 | 0.084 | 88 | 88 | . |
| OH | WOOD CO | 113,269 | . | . | . | 0.094 | 0.084 | . | . | . |
| OH | WYANDOT CO | 22,254 | . | . | . | . | . | 59 | 80 | . |
| OK | CLEVELAND CO | 174,253 | 2.6 | . | 0.0120 | 0.095 | 0.079 | 52 | 59 | . |
| OK | COMANCHE CO | 111,486 | . | . | . | 0.022 | . | 63 | 71 | . |
| OK | GARFIELD CO | 56,735 | . | . | 0.0088 | . | . | . | . | . |
| OK | KAY CO | 48,056 | . | . | . | . | . | 43 | 71 | 0.027 |
| OK | LATIMER CO | 10,333 | . | . | . | 0.096 | . | . | . | . |
| OK | MC CLAIN CO | 22,795 | . | . | . | 0.092 | 0.075 | . | . | . |
| OK | MUSKOGEE CO | 68,078 | . | . | 0.0082 | . | . | 88 | 106 | 0.011 |
| OK | OKLAHOMA CO | 599,611 | 5.4 | 0.00 | 0.0154 | 0.103 | 0.084 | 58 | 59 | . |
| OK | OKMULGEE CO | 36,490 | . | . | . | 0.094 | 0.076 | . | . | . |
| OK | TULSA CO | 503,341 | 6.3 | 0.02 | 0.0151 | 0.114 | 0.083 | 77 | 90 | 0.049 |
| OR | CLACKAMAS CO | 278,850 | . | . | . | 0.097 | 0.062 | 33 | 37 | . |
| OR | COLUMBIA CO | 37,557 | . | . | . | 0.071 | 0.053 | . | . | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax ($\mu\text{g}/\text{m}^3$) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max ($\mu\text{g}/\text{m}^3$) | PM ₁₀ 99 Pctile ($\mu\text{g}/\text{m}^3$) | SO ₂ 24-hr (ppm) |
|-------|-----------------|--------------------|---------------------|--|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| OR | DESCHUTES CO | 74,958 | 5.6 | . | . | . | . | 87 | 81 | . |
| OR | JACKSON CO | 146,389 | 5.7 | 0.02 | . | 0.074 | 0.063 | 85 | 85 | . |
| OR | JOSEPHINE CO | 62,649 | 5.1 | . | . | . | . | 88 | 88 | . |
| OR | KLAMATH CO | 57,702 | 5.1 | . | . | . | . | 82 | 82 | . |
| OR | LAKE CO | 7,186 | . | . | . | . | . | 87 | 76 | . |
| OR | LANE CO | 282,912 | 5.2 | 0.02 | . | 0.073 | 0.059 | 91 | 91 | . |
| OR | MARION CO | 228,483 | 5.3 | . | . | 0.081 | 0.061 | . | . | . |
| OR | MULTNOMAH CO | 583,887 | 4.8 | 0.06 | . | . | . | 48 | 55 | . |
| OR | UMATILLA CO | 59,249 | . | . | . | . | . | 65 | 60 | . |
| OR | UNION CO | 23,598 | . | . | . | . | . | 79 | 79 | . |
| OR | YAMHILL CO | 65,551 | . | 0.08 | . | . | . | . | . | . |
| PA | ADAMS CO | 78,274 | . | . | 0.0040 | . | . | . | . | . |
| PA | ALLEGHENY CO | 1,336,449 | 3.8 | 0.06 | 0.0294 | 0.129 | 0.109 | 133 | 113 | 0.062 |
| PA | ARMSTRONG CO | 73,478 | . | . | . | 0.078 | . | . | . | . |
| PA | BEAVER CO | 186,093 | 1.9 | 0.08 | 0.0170 | 0.101 | 0.086 | 87 | 80 | 0.078 |
| PA | BERKS CO | 336,523 | 3.0 | 0.76 | 0.0205 | 0.120 | 0.095 | 67 | 81 | 0.031 |
| PA | BLAIR CO | 130,542 | 1.5 | . | 0.0140 | 0.114 | 0.096 | 67 | 59 | 0.046 |
| PA | BUCKS CO | 541,174 | 3.8 | . | 0.0196 | 0.119 | 0.102 | 61 | 59 | 0.029 |
| PA | CAMBRIA CO | 163,029 | 2.7 | 0.04 | 0.0159 | 0.104 | 0.092 | 67 | 66 | 0.030 |
| PA | CARBON CO | 56,846 | . | 0.09 | . | . | . | . | . | . |
| PA | CHESTER CO | 376,396 | . | . | . | . | . | 79 | 105 | . |
| PA | DAUPHIN CO | 237,813 | 3.3 | 0.04 | 0.0185 | 0.116 | 0.092 | 67 | 62 | 0.022 |
| PA | DELAWARE CO | 547,651 | . | 0.05 | 0.0204 | 0.127 | 0.101 | 76 | 60 | 0.033 |
| PA | ERIE CO | 275,572 | 4.9 | . | 0.0151 | 0.103 | 0.087 | 68 | 59 | 0.035 |
| PA | FRANKLIN CO | 121,082 | . | . | . | 0.114 | 0.091 | . | . | . |
| PA | LACKAWANNA CO | 219,039 | 2.8 | . | 0.0176 | 0.106 | 0.087 | 69 | 77 | 0.031 |
| PA | LANCASTER CO | 422,822 | 3.3 | 0.04 | 0.0159 | 0.133 | 0.102 | 83 | 89 | 0.023 |
| PA | LAWRENCE CO | 96,246 | 3.0 | . | 0.0197 | 0.109 | 0.086 | 94 | 90 | 0.033 |
| PA | LEHIGH CO | 291,130 | 2.7 | . | 0.0157 | 0.116 | 0.101 | 59 | 55 | 0.030 |
| PA | LUZERNE CO | 328,149 | 3.3 | . | 0.0144 | 0.111 | 0.096 | 67 | 82 | 0.026 |
| PA | LYCOMING CO | 118,710 | . | . | . | 0.086 | 0.076 | 48 | 57 | 0.028 |
| PA | MERCER CO | 121,003 | . | 0.04 | . | 0.111 | 0.092 | 49 | 60 | 0.032 |
| PA | MONTGOMERY CO | 678,111 | 2.2 | 0.04 | 0.0193 | 0.131 | 0.107 | 79 | 66 | 0.025 |
| PA | NORTHAMPTON CO | 247,105 | 2.8 | 0.04 | 0.0177 | 0.116 | 0.092 | 51 | 59 | 0.027 |
| PA | PERRY CO | 41,172 | . | . | 0.0069 | 0.103 | 0.090 | 56 | 67 | 0.021 |
| PA | PHILADELPHIA CO | 1,585,577 | 5.3 | 7.00 | 0.0324 | 0.125 | 0.101 | 264 | 325 | 0.048 |
| PA | SCHUYLKILL CO | 152,585 | 1.7 | . | . | . | . | . | . | 0.035 |
| PA | WARREN CO | 45,050 | . | . | . | . | . | . | . | 0.069 |
| PA | WASHINGTON CO | 204,584 | 1.6 | . | 0.0180 | 0.118 | 0.099 | 60 | 57 | 0.050 |
| PA | WESTMORELAND CO | 370,321 | . | 0.05 | 0.0168 | 0.123 | 0.088 | 62 | 75 | 0.029 |
| PA | YORK CO | 339,574 | 3.4 | 0.04 | 0.0189 | 0.109 | 0.094 | 75 | 82 | 0.026 |
| RI | KENT CO | 161,135 | . | . | . | 0.115 | 0.098 | 45 | 52 | . |
| RI | PROVIDENCE CO | 596,270 | 5.6 | . | 0.0247 | 0.108 | 0.085 | 62 | 64 | 0.037 |
| RI | WASHINGTON CO | 110,006 | . | . | . | 0.113 | . | . | . | . |
| SC | ABBEVILLE CO | 23,862 | . | . | . | 0.090 | 0.078 | . | . | . |
| SC | AIKEN CO | 120,940 | . | 0.01 | . | 0.104 | 0.086 | 45 | 46 | . |
| SC | ANDERSON CO | 145,196 | . | 0.00 | . | 0.100 | 0.087 | . | . | . |
| SC | BARNWELL CO | 20,293 | . | . | . | 0.108 | 0.084 | 44 | 62 | . |
| SC | BERKELEY CO | 128,776 | . | . | . | 0.090 | 0.073 | . | . | . |
| SC | CHARLESTON CO | 295,039 | 3.9 | 0.01 | 0.0109 | 0.102 | 0.082 | 49 | 49 | 0.022 |
| SC | CHEROKEE CO | 44,506 | . | . | . | 0.104 | 0.091 | . | . | . |
| SC | CHESTER CO | 32,170 | . | . | . | 0.107 | 0.089 | . | . | . |
| SC | COLLETON CO | 34,377 | . | . | . | 0.087 | 0.079 | . | . | . |
| SC | DARLINGTON CO | 61,851 | . | . | . | 0.096 | 0.085 | . | . | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|-----------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| SC | DILLON CO | 29,114 | . | 0.01 | . | . | . | . | . | . |
| SC | EDGEFIELD CO | 18,375 | . | . | . | 0.093 | 0.078 | . | . | . |
| SC | FAIRFIELD CO | 22,295 | . | . | . | . | . | 53 | 65 | . |
| SC | GEORGETOWN CO | 46,302 | . | 0.02 | . | . | . | 98 | 78 | 0.006 |
| SC | GREENVILLE CO | 320,167 | 5.6 | 0.01 | 0.0170 | . | . | 53 | 51 | 0.014 |
| SC | GREENWOOD CO | 59,567 | . | 0.02 | . | . | . | . | . | . |
| SC | LEXINGTON CO | 167,611 | . | . | . | . | . | 122 | 117 | 0.020 |
| SC | OCONEE CO | 57,494 | . | . | . | 0.090 | 0.080 | . | . | 0.007 |
| SC | PICKENS CO | 93,894 | . | . | . | 0.097 | 0.081 | . | . | . |
| SC | RICHLAND CO | 285,720 | 2.9 | 0.01 | 0.0112 | 0.110 | 0.089 | 130 | 123 | 0.009 |
| SC | SPARTANBURG CO | 226,800 | . | 0.00 | . | 0.107 | 0.088 | 43 | 56 | . |
| SC | UNION CO | 30,337 | . | . | . | 0.098 | 0.082 | . | . | . |
| SC | WILLIAMSBURG CO | 36,815 | . | . | . | 0.084 | 0.071 | . | . | . |
| SC | YORK CO | 131,497 | . | 0.01 | . | 0.098 | 0.081 | 46 | 50 | . |
| SD | BROOKINGS CO | 25,207 | . | . | . | . | . | 52 | 58 | . |
| SD | MINNEHAHA CO | 123,809 | . | . | . | . | . | 46 | 52 | . |
| SD | PENNINGTON CO | 81,343 | . | . | . | . | . | 141 | 141 | . |
| TN | ANDERSON CO | 68,250 | . | . | . | 0.107 | 0.084 | . | . | 0.025 |
| TN | BLOUNT CO | 85,969 | . | . | . | 0.115 | 0.098 | 43 | 49 | 0.048 |
| TN | BRADLEY CO | 73,712 | . | . | 0.0143 | 0.106 | 0.082 | 45 | 49 | 0.038 |
| TN | DAVIDSON CO | 510,784 | 6.3 | 0.08 | 0.0124 | 0.125 | 0.097 | 69 | 76 | 0.032 |
| TN | DICKSON CO | 35,061 | . | . | . | . | . | 42 | 42 | . |
| TN | HAMBLEN CO | 50,480 | . | . | . | 0.096 | 0.086 | 41 | 43 | 0.037 |
| TN | HAMILTON CO | 285,536 | . | . | . | 0.107 | 0.089 | 63 | 66 | . |
| TN | HAWKINS CO | 44,565 | . | . | . | . | . | . | . | 0.069 |
| TN | HAYWOOD CO | 19,437 | . | . | . | 0.094 | 0.082 | . | . | . |
| TN | HENRY CO | 27,888 | . | . | . | . | . | 53 | 59 | . |
| TN | HUMPHREYS CO | 15,795 | . | . | . | 0.080 | . | . | . | 0.016 |
| TN | JEFFERSON CO | 33,016 | . | . | . | 0.124 | 0.094 | . | . | . |
| TN | KNOX CO | 335,749 | 4.8 | 0.00 | . | 0.120 | 0.096 | 67 | 69 | . |
| TN | LAWRENCE CO | 35,303 | . | . | . | 0.093 | 0.079 | . | . | . |
| TN | LOUDON CO | 31,255 | . | . | . | . | . | . | . | 0.016 |
| TN | MC MINN CO | 42,383 | . | . | 0.0147 | . | . | 74 | 75 | 0.047 |
| TN | MADISON CO | 77,982 | . | 0.01 | . | . | . | 44 | 52 | . |
| TN | MAURY CO | 54,812 | . | . | . | . | . | 54 | 64 | . |
| TN | MONTGOMERY CO | 100,498 | . | . | . | . | . | 49 | 50 | 0.026 |
| TN | POLK CO | 13,643 | . | . | . | . | . | . | . | 0.067 |
| TN | PUTNAM CO | 51,373 | . | . | . | 0.099 | 0.085 | . | . | . |
| TN | ROANE CO | 47,227 | . | 0.17 | . | . | . | 58 | 75 | 0.024 |
| TN | RUTHERFORD CO | 118,570 | . | . | . | 0.101 | 0.087 | . | . | . |
| TN | SEVIER CO | 51,043 | . | . | . | 0.110 | 0.095 | . | . | . |
| TN | SHELBY CO | 826,330 | 5.5 | 1.30 | 0.0277 | 0.122 | 0.089 | 76 | 81 | 0.033 |
| TN | STEWART CO | 9,479 | . | . | . | . | . | . | . | 0.017 |
| TN | SULLIVAN CO | 143,596 | 3.5 | 0.20 | 0.0183 | 0.111 | 0.089 | 56 | 63 | 0.042 |
| TN | SUMNER CO | 103,281 | . | . | . | 0.127 | 0.100 | . | . | 0.086 |
| TN | UNION CO | 13,694 | . | . | . | . | . | 141 | 137 | . |
| TN | WASHINGTON CO | 92,315 | . | . | . | . | . | 41 | 56 | . |
| TN | WILLIAMSON CO | 81,021 | . | 0.98 | . | 0.110 | 0.092 | . | . | . |
| TN | WILSON CO | 67,675 | . | . | . | 0.104 | 0.084 | . | . | . |
| TX | BEXAR CO | 1,185,394 | 4.4 | . | 0.0220 | 0.103 | 0.084 | 41 | 58 | . |
| TX | BRAZORIA CO | 191,707 | . | . | . | 0.137 | 0.085 | . | . | . |
| TX | BREWSTER CO | 8,681 | . | . | . | 0.066 | 0.063 | . | . | . |
| TX | CAMERON CO | 260,120 | 3.2 | . | . | 0.080 | 0.065 | 103 | 91 | 0.001 |
| TX | COLLIN CO | 264,036 | . | 0.45 | . | 0.133 | 0.102 | 47 | 67 | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|-------------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| TX | DALLAS CO | 1,852,810 | 4.6 | 0.09 | 0.0180 | 0.134 | 0.097 | 66 | 77 | 0.005 |
| TX | DENTON CO | 273,525 | . | . | 0.0090 | 0.138 | 0.105 | . | . | . |
| TX | ELLIS CO | 85,167 | . | 0.26 | . | 0.111 | . | 104 | 126 | 0.022 |
| TX | EL PASO CO | 591,610 | 7.9 | 0.12 | 0.0336 | 0.115 | 0.075 | 209 | 244 | 0.030 |
| TX | GALVESTON CO | 217,399 | . | . | 0.0050 | 0.175 | 0.103 | 82 | 116 | 0.053 |
| TX | GREGG CO | 104,948 | . | . | . | 0.124 | 0.091 | . | . | . |
| TX | HARRIS CO | 2,818,199 | 6.7 | 0.00 | 0.0246 | 0.210 | 0.134 | 134 | 137 | 0.025 |
| TX | HIDALGO CO | 383,545 | . | . | . | 0.078 | 0.067 | 45 | 58 | . |
| TX | JEFFERSON CO | 239,397 | . | . | 0.0103 | 0.133 | 0.093 | . | . | 0.038 |
| TX | LUBBOCK CO | 222,636 | . | . | . | . | . | 38 | 38 | . |
| TX | NUECES CO | 291,145 | . | . | . | 0.094 | 0.077 | 74 | 78 | 0.020 |
| TX | ORANGE CO | 80,509 | . | . | 0.0093 | 0.156 | 0.090 | . | . | . |
| TX | SMITH CO | 151,309 | . | . | . | 0.101 | 0.087 | . | . | . |
| TX | TARRANT CO | 1,170,103 | 2.8 | . | 0.0156 | 0.133 | 0.097 | 47 | 58 | . |
| TX | TRAVIS CO | 576,407 | 1.3 | . | . | 0.112 | 0.087 | . | . | . |
| TX | VICTORIA CO | 74,361 | . | . | . | 0.092 | 0.078 | . | . | . |
| TX | WEBB CO | 133,239 | 6.2 | . | . | 0.090 | 0.063 | 84 | 84 | . |
| UT | CACHE CO | 70,183 | 4.4 | . | . | 0.072 | 0.063 | 89 | 92 | . |
| UT | DAVIS CO | 187,941 | 3.5 | . | 0.0207 | 0.103 | 0.079 | 61 | 94 | 0.009 |
| UT | GRAND CO | 6,620 | . | . | . | . | . | 43 | 52 | . |
| UT | IRON CO | 20,789 | . | . | . | . | . | 31 | 32 | . |
| UT | SALT LAKE CO | 725,956 | 6.5 | 0.10 | 0.0265 | 0.101 | 0.075 | 108 | 101 | 0.011 |
| UT | SAN JUAN CO | 12,621 | . | . | . | 0.073 | 0.067 | . | . | . |
| UT | TOOELE CO | 26,601 | . | . | . | . | . | 32 | 45 | 0.002 |
| UT | UTAH CO | 263,590 | 6.2 | . | 0.0233 | 0.097 | 0.075 | 115 | 101 | . |
| UT | WASHINGTON CO | 48,560 | . | . | . | 0.081 | . | 44 | 44 | . |
| UT | WEBER CO | 158,330 | 6.4 | . | 0.0239 | 0.098 | 0.075 | 67 | 67 | . |
| VT | BENNINGTON CO | 35,845 | . | . | . | 0.105 | 0.082 | 40 | 56 | . |
| VT | CHITTENDEN CO | 131,761 | 1.9 | . | 0.0166 | 0.081 | 0.072 | 42 | 46 | 0.012 |
| VT | RUTLAND CO | 62,142 | 2.9 | . | 0.0116 | . | . | 43 | 49 | 0.037 |
| VT | WASHINGTON CO | 54,928 | . | . | . | . | . | 39 | 39 | . |
| VT | WINDHAM CO | 41,588 | . | . | . | . | . | 38 | 50 | . |
| VA | ARLINGTON CO | 170,936 | 2.4 | . | 0.0224 | 0.126 | 0.094 | . | . | . |
| VA | CAROLINE CO | 19,217 | . | . | 0.0068 | 0.111 | 0.091 | . | . | . |
| VA | CARROLL CO | 26,594 | . | . | . | . | . | 42 | 54 | . |
| VA | CHARLES CITY CO | 6,282 | . | . | 0.0119 | 0.123 | 0.100 | . | . | 0.017 |
| VA | CHESTERFIELD CO | 209,274 | . | . | . | 0.105 | 0.090 | 59 | 70 | . |
| VA | CULPEPER CO | 27,791 | . | . | . | . | . | 43 | 86 | . |
| VA | FAIRFAX CO | 818,584 | 4.6 | 0.02 | 0.0236 | 0.119 | 0.093 | 51 | 69 | 0.023 |
| VA | FAUQUIER CO | 48,741 | . | . | . | 0.099 | 0.083 | . | . | . |
| VA | FREDERICK CO | 45,723 | . | . | . | 0.102 | 0.088 | . | . | . |
| VA | HANOVER CO | 63,306 | . | . | . | 0.134 | 0.099 | . | . | . |
| VA | HENRICO CO | 217,881 | . | . | . | 0.116 | 0.098 | 51 | 66 | . |
| VA | HENRY CO | 56,942 | . | . | . | 0.092 | 0.080 | . | . | . |
| VA | KING WILLIAM CO | 10,913 | . | . | . | . | . | 51 | 72 | . |
| VA | MADISON CO | 11,949 | . | . | . | 0.101 | 0.089 | . | . | . |
| VA | NORTHUMBERLAND CO | 10,524 | . | . | . | . | . | 48 | 57 | . |
| VA | PRINCE WILLIAM CO | 215,686 | . | . | 0.0097 | 0.106 | 0.086 | 48 | 81 | . |
| VA | ROANOKE CO | 79,332 | . | . | 0.0126 | 0.102 | 0.084 | . | . | 0.013 |
| VA | ROCKINGHAM CO | 57,482 | . | . | . | . | . | . | . | 0.011 |
| VA | SMYTH CO | 32,370 | . | . | . | . | . | 44 | 65 | . |
| VA | STAFFORD CO | 61,236 | . | . | . | 0.108 | 0.091 | . | . | . |
| VA | TAZEWELL CO | 45,960 | . | . | . | . | . | 44 | 48 | . |
| VA | WARREN CO | 26,142 | . | . | . | . | . | 43 | 78 | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|-----------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| VA | WISE CO | 39,573 | . | . | . | . | . | 47 | 49 | . |
| VA | WYTHE CO | 25,466 | . | . | . | 0.093 | 0.080 | . | . | . |
| VA | ALEXANDRIA | 111,183 | 3.3 | . | 0.0259 | 0.124 | 0.085 | . | . | 0.024 |
| VA | BRISTOL | 18,426 | . | . | . | . | . | 43 | 65 | . |
| VA | CHARLOTTESVILLE | 40,341 | . | . | . | . | . | 42 | 51 | . |
| VA | CHESAPEAKE | 151,976 | . | 0.01 | . | . | . | 68 | 68 | . |
| VA | COVINGTON | 6,991 | . | . | . | . | . | 45 | 59 | . |
| VA | FREDERICKSBURG | 19,027 | . | . | . | . | . | 54 | 77 | . |
| VA | HAMPTON | 133,793 | . | . | . | 0.113 | 0.097 | 55 | 64 | 0.026 |
| VA | LYNCHBURG | 66,049 | . | . | . | . | . | 51 | 55 | . |
| VA | MARTINSVILLE | 16,162 | . | . | . | . | . | 42 | 77 | . |
| VA | NEWPORT NEWS | 170,045 | 4.7 | . | . | . | . | . | . | . |
| VA | NORFOLK | 261,229 | 3.8 | . | 0.0187 | . | . | . | . | 0.023 |
| VA | RICHMOND | 203,056 | 3.9 | 0.01 | 0.0212 | . | . | 50 | 69 | 0.024 |
| VA | ROANOKE | 96,397 | 4.3 | . | . | . | . | 95 | 113 | . |
| VA | SUFFOLK | 52,141 | . | . | . | 0.114 | 0.091 | 55 | 62 | . |
| VA | WINCHESTER | 21,947 | . | . | . | . | . | 52 | 87 | . |
| WA | ASOTIN CO | 17,605 | . | . | . | . | . | 122 | 142 | . |
| WA | BENTON CO | 112,560 | . | . | . | . | . | 77 | 52 | . |
| WA | CLALLAM CO | 56,464 | . | . | . | 0.057 | 0.045 | 43 | 46 | 0.020 |
| WA | CLARK CO | 238,053 | 6.0 | . | 0.0124 | 0.077 | 0.053 | 41 | 42 | . |
| WA | COWLITZ CO | 82,119 | . | . | . | . | . | 46 | 53 | . |
| WA | KING CO | 1,507,319 | 6.5 | 0.87 | 0.0194 | 0.095 | 0.072 | 115 | 122 | 0.012 |
| WA | KITSAP CO | 189,731 | . | . | . | . | . | 48 | 49 | . |
| WA | PIERCE CO | 586,203 | 6.8 | . | . | 0.083 | 0.066 | 97 | 85 | 0.029 |
| WA | SKAGIT CO | 79,555 | . | . | . | 0.047 | 0.038 | . | . | 0.059 |
| WA | SNOHOMISH CO | 465,642 | 5.3 | . | . | 0.070 | 0.054 | 63 | 63 | 0.009 |
| WA | SPOKANE CO | 361,364 | 6.3 | . | . | 0.083 | 0.068 | 79 | 73 | . |
| WA | THURSTON CO | 161,238 | 7.3 | . | . | . | . | 58 | 58 | . |
| WA | WALLA WALLA CO | 48,439 | . | . | . | . | . | 127 | 210 | . |
| WA | WHATCOM CO | 127,780 | . | . | . | 0.070 | 0.052 | 48 | 48 | 0.012 |
| WA | YAKIMA CO | 188,823 | . | . | . | . | . | 95 | 110 | . |
| WV | BERKELEY CO | 59,253 | . | 0.01 | . | . | . | . | . | . |
| WV | BROOKE CO | 26,992 | . | . | . | . | . | 63 | 63 | 0.059 |
| WV | CABELL CO | 96,827 | . | 0.02 | . | 0.124 | 0.086 | . | . | 0.028 |
| WV | FAYETTE CO | 47,952 | . | . | . | . | . | 45 | 46 | . |
| WV | GREENBRIER CO | 34,693 | . | . | 0.0058 | 0.092 | 0.085 | . | . | 0.018 |
| WV | HANCOCK CO | 35,233 | 8.8 | . | 0.0153 | 0.097 | 0.083 | 113 | 99 | 0.061 |
| WV | HARRISON CO | 69,371 | . | 0.01 | . | . | . | . | . | . |
| WV | KANAWHA CO | 207,619 | 1.9 | 0.01 | 0.0197 | 0.103 | 0.075 | 43 | 46 | 0.032 |
| WV | MARION CO | 57,249 | . | 0.01 | . | . | . | . | . | . |
| WV | MARSHALL CO | 37,356 | . | . | . | . | . | 51 | 67 | 0.061 |
| WV | MONONGALIA CO | 75,509 | . | 0.01 | . | . | . | 57 | 57 | 0.037 |
| WV | OHIO CO | 50,871 | 3.1 | . | . | 0.110 | 0.082 | 48 | 49 | 0.034 |
| WV | PUTNAM CO | 42,835 | . | . | . | . | . | 57 | 65 | . |
| WV | WAYNE CO | 41,636 | . | . | . | . | . | 49 | 49 | 0.046 |
| WV | WOOD CO | 86,915 | . | 0.01 | . | 0.106 | 0.085 | 50 | 55 | 0.052 |
| WI | BROWN CO | 194,594 | . | . | . | 0.091 | 0.073 | . | . | 0.017 |
| WI | COLUMBIA CO | 45,088 | . | . | . | 0.088 | 0.073 | . | . | . |
| WI | DANE CO | 367,085 | 4.0 | . | . | 0.088 | 0.079 | 42 | 54 | 0.017 |
| WI | DODGE CO | 76,559 | . | . | . | 0.093 | 0.078 | . | . | . |
| WI | DOOR CO | 25,690 | . | . | . | 0.127 | 0.100 | . | . | . |
| WI | DOUGLAS CO | 41,758 | . | . | . | . | . | 44 | 71 | . |
| WI | FLORENCE CO | 4,590 | . | . | . | 0.075 | 0.064 | . | . | . |

Table A-12. Maximum Air Quality Concentrations by County, 1997 (continued)

| State | County | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 2nd Max (ppm) | O ₃ 4th Max (ppm) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ 24-hr (ppm) |
|-------|----------------|--------------------|---------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|---|-----------------------------------|
| WI | FOND DU LAC CO | 90,083 | . | . | . | 0.089 | 0.077 | . | . | . |
| WI | JEFFERSON CO | 67,783 | . | . | . | 0.093 | 0.078 | . | . | . |
| WI | KENOSHA CO | 128,181 | . | . | . | 0.120 | 0.092 | . | . | . |
| WI | KEWAUNEE CO | 18,878 | . | . | . | 0.121 | 0.099 | . | . | . |
| WI | MANITOWOC CO | 80,421 | . | . | 0.0037 | 0.132 | 0.099 | . | . | . |
| WI | MARATHON CO | 115,400 | . | . | . | 0.080 | 0.069 | 44 | 45 | 0.013 |
| WI | MILWAUKEE CO | 959,275 | 2.5 | 0.03 | 0.0207 | 0.127 | 0.095 | 58 | 59 | 0.028 |
| WI | ONEIDA CO | 31,679 | . | . | . | 0.075 | 0.065 | . | . | 0.050 |
| WI | OUTAGAMIE CO | 140,510 | . | . | . | 0.094 | 0.079 | . | . | . |
| WI | OZAUKEE CO | 72,831 | . | . | . | 0.129 | 0.099 | . | . | . |
| WI | POLK CO | 34,773 | 0.5 | . | . | 0.077 | 0.066 | . | . | . |
| WI | RACINE CO | 175,034 | 3.1 | . | . | 0.117 | 0.098 | . | . | . |
| WI | ROCK CO | 139,510 | . | . | . | 0.097 | 0.085 | . | . | . |
| WI | ST CROIX CO | 50,251 | . | . | . | 0.085 | 0.073 | . | . | . |
| WI | SAUK CO | 46,975 | . | . | 0.0043 | 0.085 | 0.071 | . | . | . |
| WI | SHEBOYGAN CO | 103,877 | . | . | . | 0.123 | 0.092 | . | . | . |
| WI | VERNON CO | 25,617 | . | . | . | 0.085 | 0.071 | 28 | 29 | . |
| WI | VILAS CO | 17,707 | . | . | . | . | . | 21 | 24 | . |
| WI | WALWORTH CO | 75,000 | . | . | . | 0.098 | 0.081 | . | . | . |
| WI | WASHINGTON CO | 95,328 | . | . | . | 0.106 | 0.074 | . | . | . |
| WI | WAUKESHA CO | 304,715 | 2.1 | . | . | 0.111 | 0.079 | 61 | 61 | . |
| WI | WINNEBAGO CO | 140,320 | . | . | . | 0.090 | 0.080 | . | . | . |
| WI | WOOD CO | 73,605 | . | . | . | . | . | . | . | 0.021 |
| WY | ALBANY CO | 30,797 | . | . | . | . | . | 53 | 57 | . |
| WY | CAMPBELL CO | 29,370 | . | . | . | . | . | 44 | 120 | . |
| WY | FREMONT CO | 33,662 | . | . | . | . | . | 73 | 69 | . |
| WY | LARAMIE CO | 73,142 | . | . | . | . | . | 26 | 27 | . |
| WY | NATRONA CO | 61,226 | . | . | . | . | . | 33 | 34 | . |
| WY | SHERIDAN CO | 23,562 | . | . | . | . | . | 100 | 96 | . |
| WY | SWEETWATER CO | 38,823 | . | . | . | . | . | 52 | 62 | . |
| WY | TETON CO | 11,172 | . | . | . | 0.067 | 0.061 | 77 | 77 | . |

CO = Highest second maximum non-overlapping 8-hour concentration (Applicable NAAQS is 9 ppm)

Pb = Highest quarterly maximum concentration (Applicable NAAQS is 1.5 ug/m³)

NO₂ = Highest arithmetic mean concentration (Applicable NAAQS is 0.053 ppm)

O₃ = Highest second daily maximum 1-hour concentration (Applicable NAAQS is 0.12 ppm)

= Highest fourth daily maximum 8-hour concentration (Applicable NAAQS is 0.08 ppm)

PM₁₀ = Highest second maximum 24-hour concentration (Applicable NAAQS is 150 ug/m³)

= Highest 99th percentile 24-hour concentration (Applicable NAAQS is 150 ug/m³)

Data from exceptional events not included.

SO₂ = Highest second maximum 24-hour concentration (Applicable NAAQS is 0.14ppm)

WTD = Weighted

AM = Annual mean

PPM = Units are parts per million

µg/m³ = Units are micrograms per cubic meter

Note: The reader is cautioned that this summary is not adequate in itself to numerically rank counties according to their air quality. The monitoring data represent the quality of air in the vicinity of the monitoring site but may not necessarily represent urban-wide air quality.

Table A-13. Maximum Air Quality Concentrations by Metropolitan Statistical Area, 1997

| Metropolitan Statistical Area | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 1-hr (ppm) | O ₃ 8-hr (ppm) | PM ₁₀ Wtd AM (µg/m ³) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ AM (ppm) | SO ₂ 24-hr (ppm) |
|--------------------------------------|--------------------|---------------------|------------------------------------|--------------------------------|---------------------------------|---------------------------------|--|---|---|--------------------------------|-----------------------------------|
| ABILENE, TX | 119,655 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| AGUADILLA, PR | 128,172 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| AKRON, OH | 657,575 | 3 | 0.04 | ND | 0.11 | 0.09 | 24 | 63 | 56 | 0.012 | 0.072 |
| ALBANY, GA | 112,561 | ND | ND | ND | ND | ND | 26 | 57 | 80 | ND | ND |
| ALBANY-SCHENECTADY-TROY, NY | 861,424 | 5 | 0.03 | 0.014 | 0.10 | 0.08 | 23 | 45 | 61 | 0.004 | 0.020 |
| ALBUQUERQUE, NM | 589,131 | 6 | ND | 0.019 | 0.09 | 0.08 | 29 | 93 | 97 | ND | ND |
| ALEXANDRIA, LA | 131,556 | ND | ND | ND | ND | ND | 23 | 76 | 92 | ND | ND |
| ALLENTOWN-BETHLEHEM-EASTON, PA | 595,081 | 3 | 0.09 | 0.018 | 0.12 | 0.10 | 19 | 59 | 59 | 0.010 | 0.030 |
| ALTOONA, PA | 130,542 | 2 | ND | 0.014 | 0.11 | 0.10 | 22 | 67 | 59 | 0.010 | 0.046 |
| AMARILLO, TX | 187,547 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ANCHORAGE, AK | 226,338 | 7 | ND | ND | ND | ND | 32 | 127 | 113 | ND | ND |
| ANN ARBOR, MI | 490,058 | ND | ND | ND | 0.09 | 0.08 | ND | ND | ND | ND | ND |
| ANNISTON, AL | 116,034 | ND | ND | ND | ND | ND | 23 | 49 | 51 | ND | ND |
| APPLETON-OSHKOSH-NEENAH, WI | 315,121 | ND | ND | ND | 0.09 | 0.08 | ND | ND | ND | ND | ND |
| ARECIBO, PR | 155,005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ASHEVILLE, NC | 191,774 | ND | ND | ND | 0.09 | 0.08 | 21 | 48 | 48 | ND | ND |
| ATHENS, GA | 126,262 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ATLANTA, GA | 2,959,950 | 4 | 0.34 | 0.025 | 0.14 | 0.11 | 32 | 75 | 80 | 0.005 | 0.027 |
| ATLANTIC-CAPE MAY, NJ | 319,416 | 4 | ND | ND | 0.13 | 0.11 | IN | IN | IN | 0.003 | 0.011 |
| AUGUSTA-AIKEN, GA-SC | 415,184 | ND | 0.01 | ND | 0.12 | 0.09 | 26 | 54 | 64 | 0.003 | 0.013 |
| AURORA-ELGIN, IL | 356,884 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| AUSTIN-SAN MARCOS, TX | 846,227 | 1 | ND | IN | 0.11 | 0.09 | ND | ND | ND | ND | ND |
| BAKERSFIELD, CA | 543,477 | 3 | 0.00 | 0.024 | 0.14 | 0.11 | 47 | 96 | 137 | IN | IN |
| BALTIMORE, MD | 2,382,172 | 5 | 0.01 | 0.026 | 0.16 | 0.12 | 30 | 63 | 94 | 0.008 | 0.026 |
| BANGOR, ME | 91,629 | ND | ND | ND | 0.09 | 0.07 | 21 | 52 | 52 | ND | ND |
| BARNSTABLE-YARMOUTH, MA | 134,954 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BATON ROUGE, LA | 528,264 | 5 | 0.06 | 0.020 | 0.13 | 0.10 | 28 | 87 | 93 | 0.006 | 0.027 |
| BEAUMONT-PORT ARTHUR, TX | 361,226 | ND | ND | 0.010 | 0.16 | 0.09 | ND | ND | ND | 0.008 | 0.038 |
| BELLINGHAM, WA | 127,780 | ND | ND | ND | 0.07 | 0.05 | 16 | 48 | 48 | IN | IN |
| BENTON HARBOR, MI | 161,378 | ND | ND | ND | 0.12 | 0.10 | ND | ND | ND | ND | ND |
| BERGEN-PASSAIC, NJ | 1,278,440 | 6 | ND | 0.028 | 0.12 | 0.10 | IN | 65 | 78 | 0.004 | 0.018 |
| BILLINGS, MT | 113,419 | 6 | ND | ND | ND | ND | 24 | 95 | 95 | 0.007 | 0.032 |
| BILOXI-GULFPORT-PASCAGOULA, MS | 312,368 | ND | ND | ND | 0.11 | 0.10 | 21 | 57 | 59 | 0.003 | 0.025 |
| BINGHAMTON, NY | 264,497 | ND | ND | ND | ND | ND | 18 | 48 | 53 | ND | ND |
| BIRMINGHAM, AL | 840,140 | 6 | ND | 0.010 | 0.12 | 0.09 | 35 | 111 | 111 | 0.006 | 0.018 |
| BISMARCK, ND | 83,831 | ND | ND | ND | ND | ND | 13 | 26 | 27 | 0.008 | 0.060 |
| BLOOMINGTON, IN | 108,978 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BLOOMINGTON-NORMAL, IL | 129,180 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BOISE CITY, ID | 295,851 | 5 | ND | 0.019 | ND | ND | 35 | 91 | 161 | ND | ND |
| BOSTON, MA-NH | 3,227,707 | 5 | ND | 0.030 | 0.12 | 0.09 | 26 | 59 | 86 | 0.009 | 0.049 |
| BOULDER-LONGMONT, CO | 225,339 | 5 | ND | ND | 0.09 | 0.07 | 21 | 42 | 43 | ND | ND |
| BRAZORIA, TX | 191,707 | ND | ND | ND | 0.14 | 0.09 | ND | ND | ND | ND | ND |
| BREMERTON, WA | 189,731 | ND | ND | ND | ND | ND | 17 | 48 | 49 | ND | ND |
| BRIDGEPORT, CT | 443,722 | 4 | ND | 0.023 | 0.14 | 0.11 | IN | 51 | 61 | 0.007 | 0.031 |
| BROCKTON, MA | 236,409 | ND | ND | 0.009 | 0.11 | 0.09 | ND | ND | ND | ND | ND |
| BROWNSVILLE-HARLINGEN-SAN BENITO, TX | 260,120 | 3 | ND | ND | 0.08 | 0.07 | 21 | 103 | 91 | 0.001 | 0.001 |
| BRYAN-COLLEGE STATION, TX | 121,862 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BUFFALO-NIAGARA FALLS, NY | 1,189,288 | 3 | 0.04 | 0.020 | 0.09 | 0.08 | 21 | 51 | 82 | 0.012 | 0.094 |
| BURLINGTON, VT | 151,506 | 2 | ND | 0.017 | ND | ND | IN | 42 | 46 | 0.002 | 0.012 |
| CAGUAS, PR | 279,501 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| CANTON-MASSILLON, OH | 394,106 | 3 | ND | ND | 0.10 | 0.08 | 27 | 58 | 58 | 0.007 | 0.025 |
| CASPER, WY | 61,226 | ND | ND | ND | ND | ND | 16 | 33 | 34 | ND | ND |

Table A-13. Maximum Air Quality Concentrations by Metropolitan Statistical Area, 1997 (continued)

| Metropolitan Statistical Area | 1990 Population | CO | Pb | NO ₂ | O ₃ | O ₃ | PM ₁₀ | PM ₁₀ | PM ₁₀ | SO ₂ | SO ₂ |
|-------------------------------------|--------------------|---------------|------------------------------|-----------------|----------------|----------------|--------------------------------|---------------------------------|-----------------------------------|-----------------|-----------------|
| | | 8-hr (ppm) | QMax (µg/m ³) | AM (ppm) | 1-hr (ppm) | 8-hr (ppm) | Wtd AM (µg/m ³) | 2nd Max (µg/m ³) | 99 Pctile (µg/m ³) | AM (ppm) | 24-hr (ppm) |
| CEDAR RAPIDS, IA | 168,767 | 2 | ND | ND | 0.08 | 0.07 | 26 | 50 | 50 | 0.007 | 0.073 |
| CHAMPAIGN-URBANA, IL | 173,025 | ND | ND | ND | 0.09 | 0.08 | 23 | 44 | 46 | 0.004 | 0.018 |
| CHARLESTON-NORTH CHARLESTON, SC | 506,875 | 4 | 0.01 | 0.011 | 0.10 | 0.08 | 22 | 49 | 49 | 0.003 | 0.022 |
| CHARLESTON, WV | 250,454 | 2 | 0.01 | 0.020 | 0.10 | 0.08 | 25 | 57 | 65 | 0.010 | 0.032 |
| CHARLOTTE-GASTONIA-ROCKHILL, NC-SC | 1,162,093 | 6 | 0.01 | 0.018 | 0.13 | 0.11 | 31 | 61 | 68 | 0.006 | 0.016 |
| CHARLOTTESVILLE, VA | 131,107 | ND | ND | ND | ND | ND | 21 | 42 | 51 | ND | ND |
| CHATTANOOGA, TN-GA | 424,347 | ND | ND | ND | 0.11 | 0.09 | 26 | 63 | 66 | ND | ND |
| CHEYENNE, WY | 73,142 | ND | ND | ND | ND | ND | IN | 26 | 27 | ND | ND |
| CHICAGO, IL | 7,410,858 | 5 | 0.33a | 0.034 | 0.11 | 0.09 | 38 | 99 | 114 | 0.008 | 0.041 |
| CHICO-PARADISE, CA | 182,120 | 5 | 0.00 | 0.013 | 0.07 | 0.07 | 26 | 84 | 108 | ND | ND |
| CINCINNATI, OH-KY-IN | 1,526,092 | 3 | 0.03 | 0.028 | 0.12 | 0.09 | 34 | 94 | 111 | 0.010 | 0.045 |
| CLARKSVILLE-HOPKINSVILLE, TN-KY | 169,439 | ND | ND | ND | 0.10 | 0.08 | 21 | 49 | 50 | 0.006 | 0.026 |
| CLEVELAND-LORAIN-ELYRIA, OH | 2,202,069 | 6 | 1.47 ^b | 0.028 | 0.12 | 0.09 | 43 | 133 | 117 | 0.010 | 0.057 |
| COLORADO SPRINGS, CO | 397,014 | 5 | 0.01 | ND | 0.07 | 0.06 | 24 | 79 | 78 | ND | ND |
| COLUMBIA, MO | 112,379 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| COLUMBIA, SC | 453,331 | 3 | 0.01 | 0.011 | 0.11 | 0.09 | 43 | 130 | 123 | 0.004 | 0.020 |
| COLUMBUS, GA-AL | 260,860 | ND | 0.81 ^c | ND | 0.10 | 0.08 | 26 | 64 | 127 | ND | ND |
| COLUMBUS, OH | 1,345,450 | 3 | 0.05 | ND | 0.11 | 0.09 | 31 | 73 | 75 | 0.005 | 0.025 |
| CORPUS CHRISTI, TX | 349,894 | ND | ND | ND | 0.09 | 0.08 | 31 | 74 | 78 | 0.003 | 0.020 |
| CUMBERLAND, MD-WV | 101,643 | ND | ND | ND | ND | ND | 26 | 56 | 60 | 0.006 | 0.020 |
| DALLAS, TX | 2,676,248 | 5 | 0.45 ^d | 0.018 | 0.14 | 0.11 | 48 | 104 | 126 | 0.003 | 0.022 |
| DANBURY, CT | 193,597 | ND | ND | ND | 0.14 | 0.11 | 21 | 46 | 47 | 0.005 | 0.024 |
| DANVILLE, VA | 108,711 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| DAVENPORT-MOLINE-ROCK ISLAND, IA-IL | 350,861 | ND | 0.02 | ND | 0.09 | 0.07 | 50 | 150 | 160 | 0.005 | 0.020 |
| DAYTON-SPRINGFIELD, OH | 951,270 | 4 | 0.04 | ND | 0.11 | 0.09 | 25 | 63 | 67 | 0.006 | 0.032 |
| DAYTONA BEACH, FL | 399,413 | ND | ND | ND | 0.09 | 0.07 | 21 | 38 | 40 | ND | ND |
| DECATUR, AL | 131,556 | ND | ND | ND | 0.09 | 0.08 | 23 | 48 | 55 | ND | ND |
| DECATUR, IL | 117,206 | ND | 0.03 | ND | 0.09 | 0.08 | 27 | 46 | 56 | 0.006 | 0.021 |
| DENVER, CO | 1,622,980 | 6 | 0.03 | 0.034 | 0.10 | 0.08 | 35 | 98 | 94 | 0.006 | 0.026 |
| DES MOINES, IA | 392,928 | 4 | ND | ND | 0.08 | 0.06 | IN | 126 | 126 | ND | ND |
| DETROIT, MI | 4,266,654 | 5 | 0.09 | 0.026 | 0.12 | 0.09 | 38 | 106 | 131 | 0.009 | 0.044 |
| DOTHAN, AL | 130,964 | ND | ND | ND | ND | ND | 25 | 50 | 58 | ND | ND |
| DOVER, DE | 110,993 | ND | ND | ND | 0.12 | 0.10 | ND | ND | ND | ND | ND |
| DUBUQUE, IA | 86,403 | ND | ND | ND | ND | ND | ND | ND | ND | IN | IN |
| DULUTH-SUPERIOR, MN-WI | 239,971 | 3 | ND | ND | 0.08 | 0.07 | 19 | 47 | 71 | ND | ND |
| DUTCHESS COUNTY, NY | 259,462 | ND | ND | ND | 0.11 | 0.09 | ND | ND | ND | ND | ND |
| EAU CLAIRE, WI | 137,543 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| EL PASO, TX | 591,610 | 8 | 0.12 | 0.034 | 0.12 | 0.08 | 35 | 209 | 244 | 0.006 | 0.030 |
| ELKHART-GOSHEN, IN | 156,198 | ND | ND | ND | 0.11 | 0.09 | ND | ND | ND | ND | ND |
| ELMIRA, NY | 95,195 | ND | ND | ND | 0.08 | 0.07 | ND | ND | ND | 0.003 | 0.015 |
| ENID, OK | 56,735 | ND | ND | 0.009 | ND | ND | ND | ND | ND | ND | ND |
| ERIE, PA | 275,572 | 5 | ND | 0.015 | 0.10 | 0.09 | 20 | 68 | 59 | 0.009 | 0.035 |
| EUGENE-SPRINGFIELD, OR | 282,912 | 5 | 0.02 | ND | 0.07 | 0.06 | 22 | 91 | 91 | ND | ND |
| EVANSVILLE-HENDERSON, IN-KY | 278,990 | 5 | ND | 0.016 | 0.11 | 0.10 | 28 | 67 | 70 | 0.017 | 0.083 |
| FARGO-MOORHEAD, ND-MN | 153,296 | ND | ND | 0.008 | 0.07 | 0.07 | 18 | 63 | 67 | 0.002 | 0.008 |
| FAYETTEVILLE, NC | 274,566 | 6 | 0.05 | ND | 0.10 | 0.09 | 25 | 48 | 59 | ND | ND |
| FAYETTEVILLE-SPRINGDALE-ROGERS, AR | 259,462 | ND | ND | ND | ND | ND | IN | 36 | 54 | ND | ND |
| FITCHBURG-LEOMINSTER, MA | 138,165 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| FLAGSTAFF, AZ-UT | 101,760 | ND | ND | ND | 0.08 | 0.07 | IN | IN | IN | ND | ND |
| FLINT, MI | 430,459 | ND | 0.01 | ND | 0.10 | 0.08 | 20 | 41 | 44 | 0.002 | 0.012 |
| FLORENCE, AL | 131,327 | ND | ND | ND | ND | ND | 19 | 41 | 44 | 0.003 | 0.020 |
| FLORENCE, SC | 114,344 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Table A-13. Maximum Air Quality Concentrations by Metropolitan Statistical Area, 1997 (continued)

| Metropolitan Statistical Area | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 1-hr (ppm) | O ₃ 8-hr (ppm) | PM ₁₀ Wtd AM (µg/m ³) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ AM (ppm) | SO ₂ 24-hr (ppm) |
|--|--------------------|---------------------|------------------------------------|--------------------------------|---------------------------------|---------------------------------|--|---|---|--------------------------------|-----------------------------------|
| FORT COLLINS-LOVELAND, CO | 186,136 | 5 | ND | ND | 0.09 | 0.06 | 16 | 34 | 40 | ND | ND |
| FORT LAUDERDALE, FL | 1,255,488 | 5 | 0.04 | 0.010 | 0.09 | 0.07 | 20 | 39 | 60 | 0.002 | 0.011 |
| FORT MYERS-CAPE CORAL, FL | 335,113 | ND | ND | ND | 0.08 | 0.07 | 18 | 33 | 38 | ND | ND |
| FORT PIERCE-PORT ST. LUCIE, FL | 251,071 | ND | ND | ND | 0.08 | 0.07 | 18 | 35 | 40 | ND | ND |
| FORT SMITH, AR-OK | 175,911 | ND | ND | ND | ND | ND | 22 | 59 | 68 | ND | ND |
| FORT WALTON BEACH, FL | 143,776 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| FORT WAYNE, IN | 456,281 | 6 | 0.03 | IN | 0.10 | 0.09 | 33 | 77 | 80 | IN | IN |
| FORT WORTH-ARLINGTON, TX | 1,361,034 | 3 | ND | 0.016 | 0.13 | 0.10 | 20 | 47 | 58 | ND | ND |
| FRESNO, CA | 755,580 | 7 | 0.00 | 0.021 | 0.14 | 0.12 | 47 | 111 | 125 | IN | IN |
| GADSDEN, AL | 99,840 | ND | ND | ND | ND | ND | 28 | 58 | 63 | ND | ND |
| GAINESVILLE, FL | 181,596 | ND | ND | ND | 0.09 | 0.08 | 20 | 41 | 75 | ND | ND |
| GALVESTON-TEXAS CITY, TX | 217,399 | ND | ND | 0.005 | 0.18 | 0.10 | 23 | 82 | 116 | 0.006 | 0.053 |
| GARY, IN | 604,526 | 4 | 0.13 ^e | IN | 0.12 | 0.09 | 37 | 138 | 132 | 0.008 | 0.032 |
| GLENS FALLS, NY | 118,539 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| GOLDSBORO, NC | 104,666 | ND | ND | ND | ND | ND | 23 | 49 | 54 | ND | ND |
| GRAND FORKS, ND-MN | 103,181 | ND | ND | ND | ND | ND | 23 | 64 | 82 | ND | ND |
| GRAND JUNCTION, CO | 93,145 | 5 | ND | ND | ND | ND | 20 | 49 | 48 | ND | ND |
| GRAND RAPIDS-MUSKEGON-HOLLAND, MI | 937,891 | 2 | 0.01 | IN | 0.12 | 0.10 | 21 | 60 | 57 | 0.002 | 0.008 |
| GREAT FALLS, MT | 77,691 | 6 | ND | ND | ND | ND | IN | IN | IN | IN | IN |
| GREELEY, CO | 131,821 | 5 | ND | ND | 0.10 | 0.07 | IN | 56 | 56 | ND | ND |
| GREEN BAY, WI | 194,594 | ND | ND | ND | 0.09 | 0.07 | ND | ND | ND | 0.003 | 0.017 |
| GREENSBORO-WINSTON-SALEM-HIGH POINT NC | 1,050,304 | 5 | 0.00 | 0.017 | 0.12 | 0.09 | 27 | 61 | 73 | 0.007 | 0.023 |
| GREENVILLE, NC | 107,924 | ND | ND | ND | 0.12 | 0.10 | 20 | 42 | 51 | 0.005 | 0.008 |
| GREENVILLE-SPARTANBURG-ANDERSON, SC | 830,563 | 6 | 0.01 | 0.017 | 0.11 | 0.09 | IN | 53 | 56 | 0.003 | 0.014 |
| HAGERSTOWN, MD | 121,393 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HAMILTON-MIDDLETOWN, OH | 291,479 | ND | 0.04 | ND | 0.12 | 0.09 | 35 | 76 | 99 | 0.007 | 0.035 |
| HARRISBURG-LEBANON-CARLISLE, PA | 587,986 | 3 | 0.04 | 0.019 | 0.12 | 0.09 | 22 | 67 | 67 | 0.007 | 0.022 |
| HARTFORD, CT | 1,157,585 | 6 | ND | 0.018 | 0.15 | 0.10 | 22 | 47 | 53 | 0.005 | 0.025 |
| HATTIESBURG, MS | 98,738 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HICKORY-MORGANTON-LENOIR, NC | 292,409 | ND | 0.04 | ND | 0.10 | 0.08 | 24 | 60 | 100 | ND | ND |
| HONOLULU, HI | 836,231 | 3 | 0.03 | 0.005 | 0.05 | 0.05 | 17 | 28 | 29 | 0.002 | 0.007 |
| HOUMA, LA | 182,842 | ND | ND | ND | 0.10 | 0.08 | ND | ND | ND | ND | ND |
| HOUSTON, TX | 3,322,025 | 7 | 0.00 | 0.025 | 0.21 | 0.13 | 27 | 134 | 137 | 0.004 | 0.025 |
| HUNTINGTON-ASHLAND, WV-KY-OH | 312,529 | 4 | 0.02 | 0.015 | 0.12 | 0.09 | 39 | 94 | 105 | 0.012 | 0.046 |
| HUNTSVILLE, AL | 293,047 | 3 | ND | ND | 0.10 | 0.09 | 21 | 48 | 50 | ND | ND |
| INDIANAPOLIS, IN | 1,380,491 | 4 | 0.08 | 0.015 | 0.11 | 0.10 | 28 | 54 | 64 | 0.006 | 0.030 |
| IOWA CITY, IA | 96,119 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| JACKSON, MI | 149,756 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| JACKSON, MS | 395,396 | 4 | ND | ND | 0.10 | 0.08 | 26 | 111 | 91 | 0.002 | 0.007 |
| JACKSON, TN | 90,801 | ND | 0.01 | ND | ND | ND | 23 | 44 | 52 | ND | ND |
| JACKSONVILLE, FL | 906,727 | 3 | 0.02 | 0.014 | 0.12 | 0.09 | 26 | 62 | 64 | 0.004 | 0.035 |
| JACKSONVILLE, NC | 149,838 | ND | ND | ND | ND | ND | 20 | 46 | 52 | ND | ND |
| JAMESTOWN, NY | 141,895 | ND | ND | ND | 0.11 | 0.09 | 15 | 49 | 56 | 0.008 | 0.039 |
| JANESVILLE-BELOIT, WI | 139,510 | ND | ND | ND | 0.10 | 0.09 | ND | ND | ND | ND | ND |
| JERSEY CITY, NJ | 553,099 | 7 | ND | 0.026 | 0.12 | 0.11 | 44 | 77 | 103 | 0.010 | 0.031 |
| JOHNSON CITY-KINGSPORT-BRISTOL, TN-VA | 436,047 | 4 | 0.20 | 0.018 | 0.11 | 0.09 | 30 | 56 | 65 | 0.011 | 0.069 |
| JOHNSTOWN, PA | 241,247 | 3 | 0.04 | 0.016 | 0.10 | 0.09 | 24 | 67 | 66 | 0.009 | 0.030 |
| JONESBORO, AR | 68,956 | ND | ND | ND | ND | ND | 24 | 60 | 75 | ND | ND |
| JOPLIN, MO | 134,910 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| KALAMAZOO-BATTLE CREEK, MI | 429,453 | ND | ND | ND | 0.10 | 0.09 | 23 | 48 | 49 | ND | ND |
| KANKAKEE, IL | 96,255 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| KANSAS CITY, MO-KS | 1,582,875 | 7 | 0.45 | 0.020 | 0.12 | 0.10 | 33 | 75 | 78 | 0.005 | 0.021 |

Table A-13. Maximum Air Quality Concentrations by Metropolitan Statistical Area, 1997 (continued)

| Metropolitan Statistical Area | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 1-hr (ppm) | O ₃ 8-hr (ppm) | PM ₁₀ Wtd AM (µg/m ³) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ AM (ppm) | SO ₂ 24-hr (ppm) |
|-----------------------------------|--------------------|---------------------|------------------------------------|--------------------------------|---------------------------------|---------------------------------|--|---|---|--------------------------------|-----------------------------------|
| KENOSHA, WI | 128,181 | ND | ND | ND | 0.12 | 0.09 | ND | ND | ND | ND | ND |
| KILLEEN-TEMPLE, TX | 255,301 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| KNOXVILLE, TN | 585,960 | 5 | 0.00 | IN | 0.12 | 0.10 | 22 | 141 | 137 | 0.008 | 0.048 |
| KOKOMO, IN | 96,946 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| LA CROSSE, WI-MN | 116,401 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| LAFAYETTE, LA | 344,853 | ND | ND | ND | 0.11 | 0.08 | 22 | 70 | 87 | ND | ND |
| LAFAYETTE, IN | 161,572 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| LAKE CHARLES, LA | 168,134 | ND | ND | 0.006 | 0.13 | 0.09 | 25 | 79 | 89 | 0.003 | 0.012 |
| LAKELAND-WINTER HAVEN, FL | 405,382 | ND | ND | ND | 0.10 | 0.08 | IN | IN | IN | 0.007 | 0.017 |
| LANCASTER, PA | 422,822 | 3 | 0.04 | 0.016 | 0.13 | 0.10 | 34 | 83 | 89 | 0.007 | 0.023 |
| LANSING-EAST LANSING, MI | 432,674 | ND | ND | ND | 0.09 | 0.08 | ND | ND | ND | ND | ND |
| LAREDO, TX | 133,239 | 6 | ND | ND | 0.09 | 0.06 | IN | 84 | 84 | ND | ND |
| LAS CRUCES, NM | 135,510 | 5 | 0.08 | 0.010 | 0.10 | 0.08 | 42 | 144 | 135 | 0.005 | 0.022 |
| LAS VEGAS, NV-AZ | 852,737 | 8 | ND | IN | 0.09 | 0.08 | 49 | 186 | 138 | ND | ND |
| LAWRENCE, KS | 81,798 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| LAWRENCE, MA-NH | 353,232 | ND | ND | ND | 0.10 | 0.08 | 15 | 36 | 42 | 0.005 | 0.027 |
| LAWTON, OK | 111,486 | IN | ND | IN | 0.02 | ND | 26 | 63 | 71 | ND | ND |
| LEWISTON-AUBURN, ME | 93,679 | ND | ND | ND | ND | ND | 21 | 48 | 54 | 0.004 | 0.017 |
| LEXINGTON, KY | 405,936 | 5 | 0.02 | 0.014 | 0.10 | 0.08 | 24 | 62 | 58 | 0.006 | 0.016 |
| LIMA, OH | 154,340 | ND | ND | ND | 0.09 | 0.08 | 24 | 48 | 50 | 0.003 | 0.016 |
| LINCOLN, NE | 213,641 | 7 | ND | ND | 0.06 | 0.05 | 25 | 44 | 57 | ND | ND |
| LITTLE ROCK-NORTH LITTLE ROCK, AR | 513,117 | 5 | ND | 0.010 | 0.10 | 0.08 | 27 | 61 | 86 | 0.002 | 0.006 |
| LONGVIEW-MARSHALL, TX | 193,801 | ND | ND | ND | 0.12 | 0.09 | ND | ND | ND | ND | ND |
| LOS ANGELES-LONG BEACH, CA | 8,863,164 | 15 | 0.07 | 0.043 | 0.17 | 0.12 | 46 | 93 | 116 | 0.004 | 0.010 |
| LOUISVILLE, KY-IN | 948,829 | 6 | 0.02 | 0.020 | 0.13 | 0.10 | 34 | 98 | 133 | 0.009 | 0.038 |
| LOWELL, MA-NH | 280,578 | 4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| LUBBOCK, TX | 222,636 | ND | ND | ND | ND | ND | IN | 38 | 38 | ND | ND |
| LYNCHBURG, VA | 193,928 | ND | ND | ND | ND | ND | 23 | 51 | 55 | ND | ND |
| MACON, GA | 290,909 | ND | ND | ND | 0.12 | 0.10 | 31 | 77 | 102 | IN | IN |
| MADISON, WI | 367,085 | 4 | ND | ND | 0.09 | 0.08 | 20 | 42 | 54 | 0.003 | 0.017 |
| MANCHESTER, NH | 50,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MANSFIELD, OH | 174,007 | ND | ND | ND | ND | ND | IN | 63 | 63 | ND | ND |
| MAYAGUEZ, PR | 237,143 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MCALLEN-EDINBURG-MISSION, TX | 383,545 | ND | ND | ND | 0.08 | 0.07 | IN | 45 | 58 | ND | ND |
| MEDFORD-ASHLAND, OR | 146,389 | 6 | 0.02 | ND | 0.07 | 0.06 | IN | 85 | 85 | ND | ND |
| MELBOURNE-TITUSVILLE-PALM BAY, FL | 398,978 | ND | ND | ND | 0.09 | 0.08 | 19 | 38 | 42 | ND | ND |
| MEMPHIS, TN-AR-MS | 1,007,306 | 6 | 1.30 ^f | 0.028 | 0.12 | 0.09 | 30 | 76 | 81 | 0.005 | 0.033 |
| MERCED, CA | 178,403 | ND | ND | 0.013 | 0.09 | 0.07 | ND | ND | ND | ND | ND |
| MIAMI, FL | 1,937,094 | 4 | ND | 0.017 | 0.11 | 0.08 | 26 | 52 | 71 | 0.001 | 0.004 |
| MIDDLESEX-SOMERSET-HUNTERDON, NJ | 1,019,835 | 4 | 0.08 | 0.018 | 0.14 | 0.11 | ND | ND | ND | 0.005 | 0.019 |
| MILWAUKEE-WAUKESHA, WI | 1,432,149 | 3 | 0.03 | 0.021 | 0.13 | 0.10 | 27 | 61 | 61 | 0.004 | 0.028 |
| MINNEAPOLIS-ST. PAUL, MN-WI | 2,538,834 | 5 | 0.43 ^g | 0.023 | 0.09 | 0.08 | IN | 77 | 74 | 0.004 | 0.027 |
| MOBILE, AL | 476,923 | ND | ND | ND | 0.12 | 0.08 | 30 | 142 | 166 | 0.008 | 0.049 |
| MODESTO, CA | 370,522 | 4 | 0.00 | 0.021 | 0.11 | 0.09 | 37 | 115 | 119 | ND | ND |
| MONMOUTH-OCEAN, NJ | 986,327 | 4 | ND | ND | 0.15 | 0.11 | ND | ND | ND | ND | ND |
| MONROE, LA | 142,191 | ND | ND | ND | 0.09 | 0.07 | IN | 78 | 102 | 0.004 | 0.009 |
| MONTGOMERY, AL | 292,517 | 1 | ND | 0.008 | 0.09 | 0.07 | 24 | 53 | 57 | 0.001 | 0.005 |
| MUNCIE, IN | 119,659 | ND | 0.90 ^h | ND | ND | ND | ND | ND | ND | ND | ND |
| MYRTLE BEACH, SC | 144,053 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| NAPLES, FL | 152,099 | ND | ND | ND | ND | ND | 18 | 37 | 46 | ND | ND |
| NASHUA, NH | 168,233 | 5 | ND | 0.016 | 0.12 | 0.09 | 19 | 42 | 61 | 0.008 | 0.036 |
| NASHVILLE, TN | 985,026 | 6 | 0.98 ⁱ | 0.012 | 0.13 | 0.10 | 34 | 69 | 76 | 0.007 | 0.086 |

Table A-13. Maximum Air Quality Concentrations by Metropolitan Statistical Area, 1997 (continued)

| Metropolitan Statistical Area | 1990 Population | CO 8-hr (ppm) | Pb QMax (µg/m ³) | NO ₂ AM (ppm) | O ₃ 1-hr (ppm) | O ₃ 8-hr (ppm) | PM ₁₀ Wtd AM (µg/m ³) | PM ₁₀ 2nd Max (µg/m ³) | PM ₁₀ 99 Pctile (µg/m ³) | SO ₂ AM (ppm) | SO ₂ 24-hr (ppm) |
|--------------------------------------|--------------------|---------------------|------------------------------------|--------------------------------|---------------------------------|---------------------------------|--|---|---|--------------------------------|-----------------------------------|
| NASSAU-SUFFOLK, NY | 2,609,212 | 5 | ND | 0.025 | 0.14 | 0.11 | 23 | 68 | 73 | 0.006 | 0.029 |
| NEW BEDFORD, MA | 175,641 | ND | ND | ND | 0.12 | 0.09 | 18 | 35 | 51 | ND | ND |
| NEW HAVEN-MERIDEN, CT | 530,180 | 4 | ND | 0.024 | 0.15 | 0.11 | 24 | 64 | 63 | 0.006 | 0.032 |
| NEW LONDON-NORWICH, CT-RI | 290,734 | ND | ND | ND | 0.15 | 0.11 | 19 | 41 | 65 | 0.004 | 0.022 |
| NEW ORLEANS, LA | 1,285,270 | 3 | 0.05 | 0.018 | 0.11 | 0.08 | 31 | 94 | 100 | 0.005 | 0.017 |
| NEW YORK, NY | 8,546,846 | 6 | 0.16 | 0.040 | 0.16 | 0.12 | 31 | 101 | 105 | 0.013 | 0.043 |
| NEWARK, NJ | 1,915,928 | 5 | ND | 0.041 | 0.11 | 0.10 | 35 | 81 | 91 | 0.007 | 0.027 |
| NEWBURGH, NY-PA | 335,613 | ND | 0.28 | ND | 0.10 | 0.09 | ND | ND | ND | ND | ND |
| NORFOLK-VABEACH-NEWPORT NEWS,VA | 1,443,244 | 5 | 0.01 | 0.019 | 0.11 | 0.10 | 22 | 68 | 68 | 0.007 | 0.026 |
| OAKLAND, CA | 2,082,914 | 4 | 0.01 | 0.020 | 0.11 | 0.07 | 24 | 71 | 77 | 0.003 | 0.012 |
| OCALA, FL | 194,833 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ODESSA-MIDLAND, TX | 255,545 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| OKLAHOMA CITY, OK | 958,839 | 5 | 0.00 | 0.015 | 0.10 | 0.08 | 24 | 58 | 59 | ND | ND |
| OLYMPIA, WA | 161,238 | 7 | ND | ND | ND | ND | IN | 58 | 58 | ND | ND |
| OMAHA, NE-IA | 639,580 | 5 | 1.95^j | ND | 0.08 | 0.07 | 42 | 98 | 102 | 0.004 | 0.050 |
| ORANGE COUNTY, CA | 2,410,556 | 6 | ND | 0.033 | 0.13 | 0.08 | 39 | 82 | 91 | 0.001 | 0.006 |
| ORLANDO, FL | 1,224,852 | 4 | ND | 0.013 | 0.11 | 0.08 | 26 | 52 | 53 | 0.002 | 0.006 |
| OWENSBORO, KY | 87,189 | 1 | ND | 0.012 | 0.11 | 0.09 | 26 | 59 | 56 | 0.007 | 0.027 |
| PANAMA CITY, FL | 126,994 | ND | ND | ND | ND | ND | 26 | 52 | 62 | ND | ND |
| PARKERSBURG-MARIETTA, WV-OH | 149,169 | ND | 0.01 | ND | 0.11 | 0.09 | 28 | 88 | 88 | 0.010 | 0.052 |
| PENSACOLA, FL | 344,406 | ND | ND | ND | 0.11 | 0.09 | 24 | 56 | 57 | 0.005 | 0.033 |
| PEORIA-PEKIN, IL | 339,172 | 5 | 0.02 | ND | 0.09 | 0.07 | 27 | 56 | 76 | 0.007 | 0.044 |
| PHILADELPHIA, PA-NJ | 4,922,175 | 5 | 7.00^k | 0.032 | 0.14 | 0.12 | 64 | 264 | 325 | 0.012 | 0.048 |
| PHOENIX-MESA, AZ | 2,238,480 | 8 | 0.03 | 0.032 | 0.11 | 0.09 | 87 | 308 | 301 | 0.005 | 0.024 |
| PINE BLUFF, AR | 85,487 | ND | ND | ND | ND | ND | 25 | 61 | 78 | ND | ND |
| PITTSBURGH, PA | 2,384,811 | 4 | 0.08 | 0.029 | 0.13 | 0.11 | 38 | 133 | 113 | 0.017 | 0.078 |
| PITTSFIELD, MA | 88,695 | ND | ND | ND | 0.09 | 0.08 | ND | ND | ND | ND | ND |
| POCATELLO, ID | 66,026 | ND | ND | IN | ND | ND | 21 | 89 | 71 | 0.005 | 0.034 |
| PONCE, PR | 3,442,660 | ND | ND | ND | ND | ND | IN | 87 | 91 | ND | ND |
| PORTLAND, ME | 221,095 | ND | ND | ND | 0.13 | 0.10 | 23 | 81 | 87 | 0.005 | 0.023 |
| PORTLAND-VANCOUVER, OR-WA | 1,515,452 | 6 | 0.08 | 0.012 | 0.10 | 0.06 | 30 | 48 | 55 | ND | ND |
| PORTSMOUTH-ROCHESTER, NH-ME | 223,271 | ND | ND | 0.013 | 0.14 | 0.10 | IN | 37 | 48 | 0.004 | 0.018 |
| PROVIDENCE-FALL RIVER-WARWICK, RI-MA | 1,134,350 | 6 | ND | 0.025 | 0.12 | 0.10 | 25 | 62 | 64 | 0.008 | 0.037 |
| PROVO-OREM, UT | 263,590 | 6 | ND | 0.023 | 0.10 | 0.08 | 27 | 115 | 101 | ND | ND |
| PUEBLO, CO | 123,051 | ND | ND | ND | ND | ND | 27 | 56 | 88 | ND | ND |
| PUNTA GORDA, FL | 110,975 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| RACINE, WI | 175,034 | 3 | ND | ND | 0.12 | 0.10 | ND | ND | ND | ND | ND |
| RALEIGH-DURHAM-CHAPEL HILL, NC | 855,545 | 7 | 0.00 | ND | 0.12 | 0.10 | 24 | 59 | 68 | ND | ND |
| RAPID CITY, SD | 81,343 | ND | ND | ND | ND | ND | 40 | 141 | 141 | ND | ND |
| READING, PA | 336,523 | 3 | 0.76 ^l | 0.021 | 0.12 | 0.10 | 30 | 67 | 81 | 0.009 | 0.031 |
| REDDING, CA | 147,036 | ND | ND | ND | 0.11 | 0.09 | 22 | 56 | 63 | ND | ND |
| RENO, NV | 254,667 | 8 | ND | ND | 0.08 | 0.07 | 47 | 115 | 134 | ND | ND |
| RICHLAND-KENNEWICK-PASCO, WA | 150,033 | ND | ND | ND | ND | ND | IN | 77 | 52 | ND | ND |
| RICHMOND-PETERSBURG, VA | 865,640 | 4 | 0.01 | 0.021 | 0.13 | 0.10 | 25 | 59 | 70 | 0.006 | 0.024 |
| RIVERSIDE-SAN BERNARDINO, CA | 2,588,793 | 5 | 0.05 | 0.036 | 0.18 | 0.14 | 66 | 133 | 227 | 0.002 | 0.005 |
| ROANOKE, VA | 224,477 | 4 | ND | 0.013 | 0.10 | 0.08 | 35 | 95 | 113 | 0.003 | 0.013 |
| ROCHESTER, MN | 106,470 | ND | ND | ND | ND | ND | IN | 38 | 39 | ND | ND |
| ROCHESTER, NY | 1,062,470 | 2 | ND | ND | 0.10 | 0.09 | 21 | 47 | 55 | 0.010 | 0.050 |
| ROCKFORD, IL | 329,676 | 4 | 0.03 | ND | 0.08 | 0.07 | 26 | 62 | 73 | ND | ND |
| ROCKY MOUNT, NC | 133,235 | ND | ND | ND | 0.11 | 0.09 | 22 | 54 | 56 | ND | ND |
| SACRAMENTO, CA | 1,340,010 | 7 | 0.01 | 0.019 | 0.14 | 0.09 | 25 | 104 | 108 | 0.002 | 0.006 |
| SAGINAW-BAY CITY-MIDLAND, MI | 399,320 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ST. CLOUD, MN | 190,921 | 4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Table A-13. Maximum Air Quality Concentrations by Metropolitan Statistical Area, 1997 (continued)

| Metropolitan Statistical Area | 1990 Population | CO | Pb | NO ₂ | O ₃ | O ₃ | PM ₁₀ | PM ₁₀ | PM ₁₀ | SO ₂ | SO ₂ |
|--|--------------------|---------------|------------------------------|-----------------|----------------|----------------|--------------------------------|---------------------------------|-----------------------------------|-----------------|-----------------|
| | | 8-hr (ppm) | QMax (µg/m ³) | AM (ppm) | 1-hr (ppm) | 8-hr (ppm) | Wtd AM (µg/m ³) | 2nd Max (µg/m ³) | 99 Pctile (µg/m ³) | AM (ppm) | 24-hr (ppm) |
| ST. JOSEPH, MO | 83,083 | ND | ND | ND | ND | ND | 31 | 93 | 88 | 0.008 | 0.147 |
| ST. LOUIS, MO-IL | 1,836,302 | 5 | 8.53^m | 0.025 | 0.12 | 0.09 | 47 | 108 | 157 | 0.010 | 0.063 |
| SALEM, OR | 278,024 | 5 | ND | ND | 0.08 | 0.06 | ND | ND | ND | ND | ND |
| SALINAS, CA | 355,660 | 2 | ND | 0.010 | 0.08 | 0.06 | 21 | 70 | 91 | ND | ND |
| SALT LAKE CITY-OGDEN, UT | 1,072,227 | 7 | 0.10 | 0.027 | 0.10 | 0.08 | 35 | 108 | 101 | 0.004 | 0.011 |
| SAN ANGELO, TX | 98,458 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| SAN ANTONIO, TX | 1,324,749 | 4 | ND | 0.022 | 0.10 | 0.08 | 21 | 41 | 58 | ND | ND |
| SAN DIEGO, CA | 2,498,016 | 5 | 0.03 | 0.024 | 0.12 | 0.09 | 47 | 93 | 125 | 0.004 | 0.016 |
| SAN FRANCISCO, CA | 1,603,678 | 4 | 0.01 | 0.020 | 0.08 | 0.05 | 25 | 65 | 81 | 0.002 | 0.006 |
| SAN JOSE, CA | 1,497,577 | 6 | 0.01 | 0.025 | 0.09 | 0.07 | 26 | 72 | 95 | ND | ND |
| SAN JUAN-BAYAMON, PR | 1,836,302 | 6 | ND | IN | 0.05 | 0.04 | 38 | 110 | 109 | 0.005 | 0.021 |
| SAN LUIS OBISPO-ATASCADERO-PASO ROBLE CA | 217,162 | 2 | ND | 0.013 | 0.09 | 0.07 | 24 | 68 | 75 | 0.005 | 0.026 |
| SANTA BARBARA-SANTA MARIA-LOMPOC, CA | 369,608 | 4 | 0.00 | 0.019 | 0.11 | 0.08 | 30 | 63 | 122 | 0.002 | 0.005 |
| SANTA CRUZ-WATSONVILLE, CA | 229,734 | 1 | ND | 0.004 | 0.08 | 0.06 | 37 | 88 | 113 | 0.001 | 0.002 |
| SANTA FE, NM | 117,043 | 2 | ND | ND | ND | ND | IN | 33 | 33 | ND | ND |
| SANTA ROSA, CA | 388,222 | 3 | ND | 0.013 | 0.10 | 0.08 | 19 | 55 | 85 | ND | ND |
| SARASOTA-BRADENTON, FL | 489,483 | 5 | ND | ND | 0.11 | 0.08 | 28 | 56 | 54 | 0.002 | 0.012 |
| SAVANNAH, GA | 258,060 | ND | ND | ND | 0.08 | 0.07 | 26 | 49 | 53 | 0.004 | 0.024 |
| SCRANTON-WILKES-BARRE-HAZLETON, PA | 638,466 | 3 | ND | 0.018 | 0.11 | 0.10 | 26 | 69 | 82 | 0.007 | 0.031 |
| SEATTLE-BELLEVUE-EVERETT, WA | 2,033,156 | 7 | 0.87 ⁿ | 0.019 | 0.10 | 0.07 | 29 | 115 | 122 | 0.005 | 0.012 |
| SHARON, PA | 121,003 | ND | 0.04 | ND | 0.11 | 0.09 | 28 | 49 | 60 | 0.007 | 0.032 |
| SHEBOYGAN, WI | 103,877 | ND | ND | ND | 0.12 | 0.09 | ND | ND | ND | ND | ND |
| SHERMAN-DENISON, TX | 95,021 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| SHREVEPORT-BOSSIER CITY, LA | 376,330 | ND | ND | ND | 0.10 | 0.08 | 23 | 70 | 99 | 0.002 | 0.007 |
| SIOUX CITY, IA-NE | 115,018 | ND | ND | ND | ND | ND | 28 | 59 | 102 | ND | ND |
| SIOUX FALLS, SD | 139,236 | ND | ND | ND | ND | ND | 23 | 46 | 52 | ND | ND |
| SOUTH BEND, IN | 247,052 | ND | ND | 0.012 | 0.12 | 0.09 | 17 | 41 | 48 | ND | ND |
| SPOKANE, WA | 361,364 | 6 | ND | ND | 0.08 | 0.07 | 26 | 79 | 73 | ND | ND |
| SPRINGFIELD, IL | 189,550 | 2 | ND | ND | 0.09 | 0.07 | 23 | 44 | 44 | 0.006 | 0.043 |
| SPRINGFIELD, MO | 264,346 | 5 | ND | 0.011 | 0.08 | 0.07 | 16 | 95 | 123 | 0.004 | 0.054 |
| SPRINGFIELD, MA | 587,884 | 5 | ND | 0.022 | 0.14 | 0.11 | 29 | 58 | 69 | 0.005 | 0.021 |
| STAMFORD-NORWALK, CT | 329,935 | 5 | ND | ND | 0.14 | 0.10 | 31 | 65 | 90 | 0.006 | 0.030 |
| STATE COLLEGE, PA | 123,786 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| STEUBENVILLE-WEIRTON, OH-WV | 142,523 | 9 | ND | 0.017 | 0.10 | 0.08 | 32 | 113 | 99 | 0.017 | 0.061 |
| STOCKTON-LODI, CA | 480,628 | 4 | 0.00 | 0.022 | 0.11 | 0.08 | 30 | 95 | 130 | ND | ND |
| SUMTER, SC | 102,637 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| SYRACUSE, NY | 742,177 | 4 | ND | ND | 0.10 | 0.08 | 20 | 55 | 57 | 0.003 | 0.020 |
| TACOMA, WA | 586,203 | 7 | ND | ND | 0.08 | 0.07 | 20 | 97 | 85 | 0.006 | 0.029 |
| TALLAHASSEE, FL | 233,598 | ND | ND | ND | 0.06 | ND | 16 | 43 | 43 | ND | ND |
| TAMPA-ST.PETERSBURG-CLEARWATER, FL | 2,067,959 | 4 | 0.64 ^o | 0.012 | 0.11 | 0.09 | 36 | 87 | 92 | 0.008 | 0.038 |
| TERRE HAUTE, IN | 147,585 | 3 | ND | ND | 0.10 | 0.08 | 27 | 61 | 63 | 0.007 | 0.025 |
| TEXARKANA, TX-TEXARKANA, AR | 120,132 | ND | ND | ND | ND | ND | 22 | 64 | 78 | ND | ND |
| TOLEDO, OH | 614,128 | 2 | 0.42 ^p | ND | 0.11 | 0.09 | 23 | 61 | 60 | 0.004 | 0.023 |
| TOPEKA, KS | 160,976 | ND | 0.01 | ND | ND | ND | 28 | 53 | 60 | ND | ND |
| TRENTON, NJ | 325,824 | ND | ND | 0.017 | 0.13 | 0.11 | 27 | 59 | 87 | ND | ND |
| TUSCON, AZ | 666,880 | 4 | 0.01 | 0.018 | 0.10 | 0.08 | 42 | 129 | 134 | 0.002 | 0.004 |
| TULSA, OK | 708,954 | 6 | 0.02 | 0.015 | 0.11 | 0.08 | 27 | 77 | 90 | 0.008 | 0.049 |
| TUSCALOOSA, AL | 150,522 | ND | ND | ND | ND | ND | 25 | 55 | 70 | ND | ND |
| TYLER, TX | 151,309 | ND | ND | ND | 0.10 | 0.09 | ND | ND | ND | ND | ND |
| UTICA-ROME, NY | 316,633 | ND | ND | ND | 0.09 | 0.07 | 11 | 44 | 49 | 0.002 | 0.006 |
| VALLEJO-FAIRFIELD-NAPA, CA | 451,186 | 5 | ND | 0.013 | 0.10 | 0.07 | 19 | 71 | 85 | 0.002 | 0.005 |
| VENTURA, CA | 669,016 | 3 | 0.00 | 0.020 | 0.13 | 0.11 | 32 | 136 | 253 | 0.003 | 0.011 |
| VICTORIA, TX | 74,361 | ND | ND | ND | 0.09 | 0.08 | ND | ND | ND | ND | ND |

Table A-13. Maximum Air Quality Concentrations by Metropolitan Statistical Area, 1997 (continued)

| Metropolitan Statistical Area | 1990 Population | CO | Pb | NO ₂ | O ₃ | O ₃ | PM ₁₀ | PM ₁₀ | PM ₁₀ | SO ₂ | SO ₂ |
|----------------------------------|--------------------|---------------|------------------------------|-----------------|----------------|----------------|--------------------------------|---------------------------------|-----------------------------------|-----------------|-----------------|
| | | 8-hr (ppm) | QMax (µg/m ³) | AM (ppm) | 1-hr (ppm) | 8-hr (ppm) | Wtd AM (µg/m ³) | 2nd Max (µg/m ³) | 99 Pctile (µg/m ³) | AM (ppm) | 24-hr (ppm) |
| VINELAND-MILLVILLE-BRIDGETON, NJ | 138,053 | ND | ND | ND | 0.12 | 0.10 | ND | ND | ND | 0.004 | 0.018 |
| VISALIA-TULARE-PORTERVILLE, CA | 311,921 | 4 | ND | 0.019 | 0.12 | 0.10 | 42 | 86 | 96 | ND | ND |
| WACO, TX | 189,123 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| WASHINGTON, DC-MD-VA-WV | 4,223,485 | 7 | 0.02 | 0.026 | 0.14 | 0.11 | 22 | 54 | 86 | 0.008 | 0.024 |
| WATERBURY, CT | 221,629 | ND | ND | ND | ND | ND | 24 | 63 | 59 | 0.005 | 0.020 |
| WATERLOO-CEDAR FALLS, IA | 123,798 | ND | ND | ND | ND | ND | 31 | 53 | 65 | ND | ND |
| WAUSAU, WI | 115,400 | ND | ND | ND | 0.08 | 0.07 | 20 | 44 | 45 | 0.002 | 0.013 |
| WEST PALM BEACH-BOCA RATON, FL | 863,518 | 4 | 0.00 | 0.012 | 0.09 | 0.07 | 21 | 39 | 67 | 0.002 | 0.013 |
| WHEELING, WV-OH | 159,301 | 3 | ND | ND | 0.11 | 0.08 | 23 | 51 | 67 | 0.015 | 0.061 |
| WICHITA, KS | 485,270 | 5 | 0.01 | ND | 0.09 | 0.08 | 23 | 57 | 71 | 0.005 | 0.007 |
| WICHITA FALLS, TX | 130,351 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| WILLIAMSPORT, PA | 118,710 | ND | ND | ND | 0.09 | 0.08 | 26 | 48 | 57 | 0.008 | 0.028 |
| WILMINGTON-NEWARK, DE-MD | 513,293 | 5 | ND | 0.018 | 0.15 | 0.12 | 32 | 68 | 92 | 0.010 | 0.057 |
| WILMINGTON, NC | 171,269 | ND | ND | ND | 0.10 | 0.08 | IN | 39 | 41 | 0.007 | 0.028 |
| WORCESTER, MA-CT | 478,384 | 3 | ND | 0.019 | 0.11 | 0.09 | 19 | 44 | 53 | 0.004 | 0.021 |
| YAKIMA, WA | 188,823 | IN | ND | ND | ND | ND | IN | 95 | 110 | ND | ND |
| YOLO, CA | 141,092 | 2 | ND | 0.010 | 0.10 | 0.07 | 28 | 60 | 126 | ND | ND |
| YORK, PA | 339,574 | 3 | 0.04 | 0.019 | 0.11 | 0.09 | 31 | 75 | 82 | 0.009 | 0.026 |
| YOUNGSTOWN-WARREN, OH | 600,859 | ND | 0.04 | 0.016 | 0.11 | 0.09 | 27 | 61 | 61 | 0.010 | 0.048 |
| YUBA CITY, CA | 122,643 | 4 | ND | 0.014 | 0.10 | 0.07 | 29 | 83 | 98 | ND | ND |
| YUMA, AZ | 106,895 | ND | ND | ND | 0.07 | 0.06 | IN | IN | IN | ND | ND |

CO = Highest second maximum non-overlapping 8-hour concentration (*Applicable NAAQS is 9 ppm*)

Pb = Highest quarterly maximum concentration (*Applicable NAAQS is 1.5 µg/m³*)

NO₂ = Highest arithmetic mean concentration (*Applicable NAAQS is 0.053 ppm*)

O₃ (1hr) = Highest second daily maximum 1-hour concentration (*Applicable NAAQS is 0.12 ppm*)

O₃ (8hr) = Highest fourth daily maximum 8-hour concentration (*Applicable NAAQS is 0.08 ppm*)

PM₁₀ = Highest weighted annual mean concentration (*Applicable NAAQS is 50 µg/m³*)

= Highest second maximum 24-hour concentration (*Applicable NAAQS is 150 µg/m³*)

= Highest 99th percentile concentration (*Applicable NAAQS is 150 µg/m³*)

Data from exceptional events not included.

SO₂ = Highest annual mean concentration (*Applicable NAAQS is 0.03 ppm*)

= Highest second maximum 24-hour concentration (*Applicable NAAQS is 0.14 ppm*)

ND = Indicates data not available

IN = Indicates insufficient data to calculate summary statistic

Wtd = Weighted

AM = Annual mean

µg/m³ = Units are micrograms per cubic meter

PPM = Units are parts per million

(a) - Localized impact from an industrial source in Chicago, IL. Highest population-oriented site in Chicago, IL is 0.08 µg/m³.

(b) - Localized impact from an industrial source in Cleveland, OH. This facility has been shut down. Highest population-oriented site in Cleveland, OH is 0.05 µg/m³.

(c) - Localized impact from an industrial source in Columbus, GA. Highest population-oriented site in Columbus, GA is 0.16 µg/m³.

(d) - Localized impact from an industrial source in Collin Co., TX. Highest population-oriented site in Dallas, TX is 0.04 µg/m³.

(e) - Localized impact from an industrial source in Hammond, IN. Highest population-oriented site in Hammond is 0.04 µg/m³.

(f) - Localized impact from an industrial source in Memphis, TN. Highest population-oriented site in Memphis, TN is 0.03 µg/m³.

(g) - Localized impact from an industrial source in Eagan, MN. Highest population-oriented site in Minneapolis, MN is 0.01 µg/m³.

(h) - Localized impact from an industrial source in Muncie, IN.

(i) - Localized impact from an industrial source in Williamston, Co., TN. Highest population-oriented site in Nashville, TN is 0.08 µg/m³.

(j) - Localized impact from an industrial source in Omaha, NE. Highest population-oriented site in Omaha, NE is 0.12 µg/m³.

(k) - Localized impact from an industrial source in Philadelphia, PA. Highest population-oriented site in Philadelphia, PA is 0.81 µg/m³.

(l) - Localized impact from an industrial source in Laureldale, PA.

(m) - Localized impact from an industrial source in Herculaneum, MO. Highest population-oriented site in St. Louis, MO is 0.03 µg/m³.

(n) - Localized impact from an industrial source in Seattle.

(o) - Localized impact from an industrial source in Tampa, FL.

(p) - Localized impact from an industrial source in Toledo, OH.

Note: The reader is cautioned that this summary is not adequate in itself to numerically rank MSAs according to their air quality. The monitoring data represent the quality of air in the vicinity of the monitoring site but may not necessarily represent urban-wide air quality.

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------------------------------------|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| AKRON, OH | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 4.6 | 5.2 | 5.7 | 3.3 | 4.1 | 3.1 | 5.3 | 3.3 | 3.4 | 3.2 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.07 | 0.10 | 0.04 | 0.06 | 0.05 | 0.06 | 0.06 | 0.03 | 0.04 | 0.04 |
| OZONE | 4th Max. 8-hr | DOWN | 2 | 0.13 | 0.10 | 0.09 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | DOWN | 2 | 0.16 | 0.13 | 0.11 | 0.12 | 0.11 | 0.11 | 0.10 | 0.12 | 0.11 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 34 | 34 | 26 | 28 | 27 | 25 | 28 | 26 | 25 | 24 |
| | 99th Percentile | NS | 1 | 86 | 86 | 72 | 62 | 60 | 63 | 71 | 63 | 72 | 56 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.015 | 0.015 | 0.015 | 0.015 | 0.013 | 0.015 | 0.012 | 0.009 | 0.010 | 0.012 |
| | 2nd Max. 24-hr | NS | 1 | 0.056 | 0.053 | 0.061 | 0.051 | 0.064 | 0.056 | 0.042 | 0.046 | 0.042 | 0.072 |
| ALBANY-SCHENECTADY-TROY, NY | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 6.2 | 5.7 | 6.2 | 5.4 | 4.7 | 3.8 | 5.2 | 4.3 | 3.7 | 4.5 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.05 | 0.04 | 0.13 | 0.04 | 0.03 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 |
| OZONE | 4th Max. 8-hr | DOWN | 3 | 0.11 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.12 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | NS | 2 | 22 | 22 | 22 | 22 | 21 | 20 | 22 | 19 | 19 | 21 |
| | 99th Percentile | NS | 2 | 54 | 54 | 54 | 62 | 67 | 56 | 69 | 51 | 56 | 60 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.006 | 0.005 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.039 | 0.022 | 0.028 | 0.030 | 0.022 | 0.026 | 0.027 | 0.016 | 0.021 | 0.017 |
| ALBUQUERQUE, NM | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 6 | 6.7 | 6.4 | 6.1 | 5.5 | 5.0 | 5.1 | 4.9 | 5.0 | 4.3 | 3.7 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.018 | 0.019 | 0.018 | 0.004 | 0.021 | 0.024 | 0.023 | 0.018 | 0.022 | 0.019 |
| OZONE | 4th Max. 8-hr | NS | 7 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 7 | 0.09 | 0.09 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 8 | 35 | 33 | 24 | 22 | 23 | 23 | 22 | 24 | 24 | 21 |
| | 99th Percentile | NS | 8 | 83 | 80 | 57 | 56 | 53 | 72 | 62 | 66 | 53 | 55 |
| ALEXANDRIA, LA | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 23 | 23 | 23 | 22 | 25 | 21 | 23 | 21 | 19 | 23 |
| | 99th Percentile | NS | 1 | 49 | 49 | 49 | 80 | 106 | 66 | 57 | 51 | 44 | 92 |
| ALLENTOWN-BETHLEHEM-EASTON, PA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 6.8 | 4.8 | 5.3 | 5.3 | 3.8 | 3.6 | 6.6 | 4.7 | 3.2 | 2.9 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.84 | 0.44 | 0.24 | 0.27 | 0.18 | 0.12 | 0.11 | 0.06 | 0.06 | 0.07 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.020 | 0.020 | 0.017 | 0.018 | 0.018 | 0.020 | 0.021 | 0.018 | 0.018 | 0.016 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.12 | 0.09 | 0.09 | 0.10 | 0.08 | 0.08 | 0.08 | 0.10 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.15 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 31 | 30 | 30 | 30 | 19 | 23 | 24 | 23 | 23 | 23 |
| | 99th Percentile | NS | 1 | 83 | 89 | 93 | 86 | 38 | 65 | 72 | 74 | 74 | 74 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.012 | 0.010 | 0.010 | 0.008 | 0.008 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.049 | 0.047 | 0.044 | 0.033 | 0.030 | 0.027 | 0.042 | 0.027 | 0.033 | 0.033 |
| ALTOONA, PA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.11 | 0.07 | 0.08 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.14 | 0.10 | 0.10 | 0.11 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 31 | 25 | 21 | 26 | 21 | 23 | 26 | 25 | 25 | 25 |
| | 99th Percentile | NS | 1 | 96 | 64 | 55 | 71 | 38 | 65 | 76 | 58 | 58 | 58 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.011 | 0.011 | 0.011 | 0.011 | 0.009 | 0.009 | 0.010 | 0.008 | 0.008 | 0.010 |
| | 2nd Max. 24-hr | NS | 1 | 0.051 | 0.059 | 0.062 | 0.044 | 0.046 | 0.052 | 0.058 | 0.037 | 0.033 | 0.046 |
| ANCHORAGE, AK | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 28 | 26 | 31 | 30 | 31 | 28 | 27 | 26 | 25 | 25 |
| | 99th Percentile | NS | 3 | 98 | 80 | 107 | 104 | 136 | 100 | 103 | 108 | 100 | 90 |
| ANN ARBOR, MI | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.11 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.13 | 0.10 | 0.09 | 0.11 | 0.10 | 0.10 | 0.09 | 0.11 | 0.10 | 0.10 |
| ANNISTON, AL | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 28 | 28 | 28 | 29 | 25 | 25 | 24 | 23 | 19 | 23 |
| | 99th Percentile | NS | 1 | 73 | 73 | 73 | 82 | 46 | 90 | 46 | 68 | 40 | 51 |
| ASHEVILLE, NC | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.07 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 29 | 29 | 25 | 24 | 23 | 22 | 19 | 18 | 19 | 21 |
| | 99th Percentile | NS | 1 | 78 | 55 | 53 | 62 | 41 | 56 | 34 | 41 | 44 | 47 |
| ATLANTA, GA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 5.3 | 6.2 | 5.4 | 6.5 | 5.1 | 4.9 | 5.3 | 4.5 | 3.7 | 4.3 |
| LEAD | Max. Quarterly Mean | NS | 2 | 0.05 | 0.04 | 0.03 | 0.04 | 0.03 | 0.02 | 0.03 | 0.05 | 0.03 | 0.18 |
| NO ₂ | Arithmetic Mean | DOWN | 2 | 0.024 | 0.023 | 0.021 | 0.020 | 0.020 | 0.020 | 0.018 | 0.017 | 0.021 | 0.020 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.11 | 0.09 | 0.11 | 0.09 | 0.09 | 0.10 | 0.09 | 0.11 | 0.10 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.15 | 0.11 | 0.14 | 0.12 | 0.12 | 0.14 | 0.11 | 0.14 | 0.12 | 0.13 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 41 | 37 | 46 | 36 | 31 | 31 | 30 | 31 | 29 | 29 |
| | 99th Percentile | DOWN | 2 | 93 | 87 | 119 | 87 | 65 | 76 | 66 | 65 | 64 | 72 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.004 | 0.004 | 0.004 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.041 | 0.043 | 0.026 | 0.032 | 0.028 | 0.036 | 0.023 | 0.018 | 0.018 | 0.023 |
| ATLANTIC-CAPE MAY, NJ | | | | | | | | | | | | | |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.04 | 0.07 | 0.02 | 0.03 | 0.02 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------------------------------|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OZONE | 4th Max. 8-hr | NS | 1 | 0.11 | 0.10 | 0.11 | 0.11 | 0.09 | 0.09 | 0.08 | 0.10 | 0.10 | 0.11 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.15 | 0.12 | 0.16 | 0.14 | 0.12 | 0.12 | 0.10 | 0.12 | 0.11 | 0.13 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 41 | 37 | 34 | 34 | 31 | 30 | 33 | 32 | 32 | 32 |
| | 99th Percentile | NS | 1 | 97 | 73 | 59 | 71 | 80 | 64 | 59 | 67 | 67 | 67 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.006 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | NS | 1 | 0.025 | 0.029 | 0.012 | 0.011 | 0.016 | 0.014 | 0.019 | 0.011 | 0.014 | 0.011 |
| AUGUSTA-AIKEN, GA-SC | | | | | | | | | | | | | |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.02 | 0.03 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.09 | 0.07 | 0.08 | 0.07 | 0.07 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.11 | 0.09 | 0.10 | 0.10 | 0.09 | 0.10 | 0.09 | 0.11 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 27 | 21 | 22 | 23 | 22 | 22 | 21 | 19 | 19 | 21 |
| | 99th Percentile | DOWN | 1 | 86 | 53 | 62 | 55 | 67 | 57 | 52 | 62 | 51 | 46 |
| AUSTIN-SAN MARCOS, TX | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 4.2 | 4.2 | 5.9 | 3.4 | 3.7 | 3.0 | 5.8 | 3.5 | 3.2 | 3.2 |
| NO ₂ | Arithmetic Mean | UP | 1 | 0.017 | 0.017 | 0.017 | 0.016 | 0.017 | 0.017 | 0.018 | 0.021 | 0.018 | 0.018 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 2 | 0.11 | 0.11 | 0.11 | 0.10 | 0.09 | 0.09 | 0.10 | 0.11 | 0.10 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 26 | 25 | 21 | 24 | 23 | 19 | 20 | 22 | 19 | 19 |
| | 99th Percentile | DOWN | 2 | 77 | 82 | 44 | 85 | 78 | 53 | 46 | 58 | 36 | 36 |
| BAKERSFIELD, CA | | | | | | | | | | | | | |
| NO ₂ | Arithmetic Mean | DOWN | 4 | 0.018 | 0.017 | 0.017 | 0.017 | 0.016 | 0.015 | 0.015 | 0.013 | 0.013 | 0.013 |
| OZONE | 4th Max. 8-hr | NS | 5 | 0.11 | 0.11 | 0.10 | 0.11 | 0.10 | 0.11 | 0.10 | 0.11 | 0.11 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 5 | 0.14 | 0.13 | 0.13 | 0.13 | 0.12 | 0.13 | 0.13 | 0.13 | 0.14 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 74 | 65 | 69 | 70 | 55 | 44 | 40 | 46 | 36 | 40 |
| | 99th Percentile | DOWN | 1 | 206 | 191 | 251 | 189 | 153 | 96 | 133 | 195 | 138 | 125 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.006 | 0.004 | 0.004 | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.016 | 0.014 | 0.011 | 0.010 | 0.010 | 0.010 | 0.007 | 0.008 | 0.009 | 0.009 |
| BALTIMORE, MD | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 7.7 | 6.7 | 6.9 | 6.1 | 5.4 | 5.2 | 5.5 | 4.3 | 3.5 | 4.3 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.08 | 0.07 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.034 | 0.035 | 0.034 | 0.033 | 0.031 | 0.033 | 0.032 | 0.026 | 0.027 | 0.026 |
| OZONE | 4th Max. 8-hr | NS | 7 | 0.13 | 0.09 | 0.10 | 0.11 | 0.09 | 0.11 | 0.10 | 0.10 | 0.09 | 0.11 |
| | 2nd Daily Max. 1-hr | NS | 7 | 0.17 | 0.12 | 0.13 | 0.14 | 0.12 | 0.13 | 0.13 | 0.14 | 0.12 | 0.14 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 36 | 36 | 30 | 35 | 30 | 29 | 30 | 28 | 27 | 28 |
| | 99th Percentile | DOWN | 3 | 86 | 82 | 76 | 77 | 61 | 69 | 73 | 69 | 61 | 75 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.012 | 0.012 | 0.008 | 0.009 | 0.009 | 0.008 | 0.009 | 0.006 | 0.007 | 0.008 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.041 | 0.042 | 0.030 | 0.030 | 0.027 | 0.026 | 0.030 | 0.022 | 0.026 | 0.027 |
| BANGOR, ME | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 31 | 26 | 21 | 25 | 22 | 22 | 22 | 20 | 19 | 21 |
| | 99th Percentile | NS | 1 | 67 | 59 | 38 | 51 | 76 | 67 | 77 | 52 | 41 | 52 |
| BATON ROUGE, LA | | | | | | | | | | | | | |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.10 | 0.09 | 0.06 | 0.03 | 0.03 | 0.02 | 0.02 | 0.04 | 0.03 | 0.03 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.017 | 0.015 | 0.014 | 0.015 | 0.016 | 0.012 | 0.016 | 0.016 | 0.015 | 0.013 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.10 | 0.09 | 0.11 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.15 | 0.14 | 0.15 | 0.13 | 0.11 | 0.11 | 0.12 | 0.12 | 0.11 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 28 | 28 | 28 | 28 | 27 | 22 | 26 | 24 | 24 | 27 |
| | 99th Percentile | NS | 2 | 57 | 59 | 65 | 76 | 91 | 61 | 55 | 57 | 55 | 82 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.007 | 0.007 | 0.005 | 0.009 | 0.008 | 0.006 | 0.008 | 0.006 | 0.006 | 0.006 |
| | 2nd Max. 24-hr | NS | 1 | 0.029 | 0.056 | 0.022 | 0.036 | 0.033 | 0.021 | 0.025 | 0.034 | 0.024 | 0.027 |
| BEAUMONT-PORT ARTHUR, TX | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 3.0 | 2.0 | 2.3 | 2.3 | 2.4 | 3.3 | 2.0 | 1.7 | 2.1 | 2.1 |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.03 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| NO ₂ | Arithmetic Mean | NS | 2 | 0.010 | 0.010 | 0.009 | 0.010 | 0.011 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.10 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.08 | 0.10 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.14 | 0.13 | 0.12 | 0.13 | 0.13 | 0.12 | 0.11 | 0.13 | 0.12 | 0.14 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.008 | 0.008 | 0.009 | 0.008 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.046 | 0.088 | 0.042 | 0.059 | 0.044 | 0.047 | 0.039 | 0.025 | 0.041 | 0.037 |
| BELLINGHAM, WA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.06 | 0.05 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.005 | 0.006 | 0.007 | 0.006 | 0.007 | 0.006 | 0.007 | 0.006 | 0.005 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.026 | 0.018 | 0.028 | 0.021 | 0.022 | 0.017 | 0.019 | 0.018 | 0.013 | 0.012 |
| BERGEN-PASSAIC, NJ | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 6.8 | 7.5 | 6.8 | 6.6 | 4.5 | 5.2 | 6.2 | 4.9 | 3.8 | 4.8 |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.09 | 0.05 | 0.04 | 0.03 | 0.02 | 0.03 | 0.08 | 0.03 | 0.03 | 0.03 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.036 | 0.035 | 0.031 | 0.031 | 0.030 | 0.029 | 0.031 | 0.029 | 0.028 | 0.028 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.13 | 0.10 | 0.10 | 0.10 | 0.08 | 0.08 | 0.09 | 0.10 | 0.08 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.19 | 0.12 | 0.13 | 0.14 | 0.10 | 0.11 | 0.11 | 0.12 | 0.11 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 38 | 35 | 37 | 39 | 33 | 31 | 35 | 31 | 31 | 31 |
| | 99th Percentile | NS | 3 | 87 | 76 | 95 | 84 | 63 | 79 | 101 | 76 | 73 | 84 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.012 | 0.011 | 0.010 | 0.010 | 0.009 | 0.008 | 0.007 | 0.005 | 0.006 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.053 | 0.045 | 0.041 | 0.035 | 0.040 | 0.026 | 0.037 | 0.027 | 0.022 | 0.021 |
| BILLINGS, MT | | | | | | | | | | | | | |
| SO ₂ | Arithmetic Mean | DOWN | 4 | 0.020 | 0.018 | 0.016 | 0.016 | 0.020 | 0.021 | 0.015 | 0.013 | 0.009 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 4 | 0.095 | 0.078 | 0.066 | 0.069 | 0.081 | 0.104 | 0.066 | 0.059 | 0.056 | 0.032 |
| BILOXI-GULFPORT-PASCAGOULA, MS | | | | | | | | | | | | | |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.006 | 0.006 | 0.007 | 0.006 | 0.006 | 0.004 | 0.003 | 0.003 | 0.003 | 0.002 |
| | 2nd Max. 24-hr | NS | 1 | 0.022 | 0.029 | 0.037 | 0.034 | 0.020 | 0.029 | 0.022 | 0.024 | 0.043 | 0.025 |
| BIRMINGHAM, AL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 7.4 | 7.4 | 6.9 | 7.0 | 6.6 | 6.6 | 6.6 | 6.2 | 5.4 | 5.8 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 2.51 | 1.23 | 0.91 | 1.34 | 0.62 | 0.19 | 0.09 | 0.08 | 0.10 | 0.10 |
| OZONE | 4th Max. 8-hr | NS | 6 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.10 | 0.09 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 6 | 0.12 | 0.10 | 0.12 | 0.10 | 0.11 | 0.11 | 0.10 | 0.12 | 0.13 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 37 | 31 | 35 | 32 | 29 | 27 | 25 | 26 | 25 | 26 |
| | 99th Percentile | NS | 6 | 84 | 71 | 79 | 85 | 57 | 72 | 58 | 58 | 54 | 72 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.009 | 0.007 | 0.006 | 0.004 | 0.006 |
| | 2nd Max. 24-hr | NS | 1 | 0.025 | 0.025 | 0.025 | 0.020 | 0.027 | 0.050 | 0.037 | 0.016 | 0.015 | 0.018 |
| BISMARCK, ND | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 19 | 21 | 24 | 21 | 21 | 19 | 18 | 20 | 20 | 20 |
| | 99th Percentile | DOWN | 1 | 56 | 65 | 107 | 84 | 86 | 56 | 49 | 37 | 37 | 37 |
| BOISE CITY, ID | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 40 | 42 | 29 | 35 | 34 | 37 | 35 | 30 | 28 | 29 |
| | 99th Percentile | NS | 3 | 134 | 122 | 73 | 148 | 81 | 82 | 105 | 94 | 76 | 69 |
| BOSTON, MA-NH | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 5.1 | 5.0 | 5.6 | 4.1 | 4.7 | 4.0 | 4.9 | 3.6 | 3.6 | 3.8 |
| NO ₂ | Arithmetic Mean | DOWN | 6 | 0.029 | 0.028 | 0.027 | 0.027 | 0.026 | 0.027 | 0.027 | 0.024 | 0.025 | 0.024 |
| OZONE | 4th Max. 8-hr | DOWN | 4 | 0.11 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 | 0.09 | 0.07 | 0.08 |
| | 2nd Daily Max. 1-hr | DOWN | 4 | 0.15 | 0.12 | 0.10 | 0.13 | 0.11 | 0.11 | 0.11 | 0.11 | 0.09 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 7 | 27 | 26 | 25 | 24 | 22 | 22 | 23 | 21 | 23 | 21 |
| | 99th Percentile | NS | 7 | 58 | 56 | 69 | 53 | 66 | 60 | 60 | 56 | 72 | 60 |
| SO ₂ | Arithmetic Mean | DOWN | 10 | 0.012 | 0.011 | 0.010 | 0.009 | 0.009 | 0.009 | 0.008 | 0.006 | 0.006 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 10 | 0.050 | 0.044 | 0.039 | 0.031 | 0.038 | 0.033 | 0.033 | 0.024 | 0.026 | 0.030 |
| BOULDER-LONGMONT, CO | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 6.3 | 6.6 | 5.7 | 5.7 | 5.9 | 5.3 | 4.5 | 4.2 | 4.0 | 4.4 |
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.08 | 0.08 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.12 | 0.11 | 0.10 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 | 0.09 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 28 | 29 | 23 | 23 | 23 | 24 | 19 | 16 | 17 | 17 |
| | 99th Percentile | DOWN | 2 | 88 | 93 | 77 | 74 | 64 | 71 | 43 | 42 | 44 | 35 |
| BRAZORIA, TX | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.10 | 0.10 | 0.10 | 0.09 | 0.10 | 0.09 | 0.09 | 0.11 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.14 | 0.15 | 0.15 | 0.13 | 0.13 | 0.13 | 0.11 | 0.15 | 0.11 | 0.14 |
| BRIDGEPORT, CT | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 6.5 | 5.2 | 5.0 | 5.5 | 4.7 | 3.7 | 5.8 | 4.9 | 3.0 | 4.0 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.027 | 0.026 | 0.026 | 0.025 | 0.024 | 0.024 | 0.026 | 0.024 | 0.024 | 0.023 |
| OZONE | 4th Max. 8-hr | DOWN | 2 | 0.14 | 0.11 | 0.10 | 0.11 | 0.08 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | DOWN | 2 | 0.22 | 0.16 | 0.15 | 0.15 | 0.12 | 0.16 | 0.15 | 0.13 | 0.11 | 0.13 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 29 | 27 | 25 | 28 | 22 | 21 | 26 | 22 | 21 | 21 |
| | 99th Percentile | NS | 1 | 71 | 61 | 85 | 60 | 59 | 53 | 69 | 71 | 61 | 61 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.012 | 0.012 | 0.011 | 0.010 | 0.010 | 0.009 | 0.009 | 0.006 | 0.006 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.060 | 0.047 | 0.048 | 0.042 | 0.037 | 0.033 | 0.051 | 0.031 | 0.029 | 0.033 |
| BROCKTON, MA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.09 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.10 | 0.10 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.13 | 0.13 | 0.12 | 0.15 | 0.11 | 0.11 | 0.12 | 0.13 | 0.10 | 0.10 |
| BROWNSVILLE-HARLINGEN-SAN BENITO, TX | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 22 | 22 | 22 | 24 | 24 | 22 | 23 | 21 | 19 | 21 |
| | 99th Percentile | NS | 1 | 54 | 54 | 54 | 70 | 73 | 69 | 62 | 49 | 41 | 66 |
| BUFFALO-NIAGARA FALLS, NY | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 3 | 4.1 | 4.4 | 3.4 | 3.1 | 4.6 | 3.4 | 3.2 | 2.6 | 2.9 | 2.2 |
| LEAD | Max. Quarterly Mean | NS | 2 | 0.07 | 0.04 | 0.04 | 0.03 | 0.03 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| NO ₂ | Arithmetic Mean | NS | 2 | 0.021 | 0.022 | 0.020 | 0.018 | 0.018 | 0.017 | 0.019 | 0.019 | 0.019 | 0.018 |
| OZONE | 4th Max. 8-hr | DOWN | 2 | 0.12 | 0.08 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.14 | 0.10 | 0.11 | 0.11 | 0.11 | 0.09 | 0.09 | 0.10 | 0.10 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 12 | 26 | 25 | 20 | 25 | 22 | 19 | 19 | 19 | 20 | 19 |
| | 99th Percentile | NS | 12 | 71 | 68 | 55 | 69 | 62 | 70 | 43 | 47 | 73 | 49 |
| SO ₂ | Arithmetic Mean | DOWN | 4 | 0.013 | 0.012 | 0.011 | 0.012 | 0.011 | 0.010 | 0.010 | 0.008 | 0.007 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 4 | 0.062 | 0.051 | 0.054 | 0.062 | 0.058 | 0.042 | 0.039 | 0.040 | 0.034 | 0.040 |
| BURLINGTON, VT | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 3.7 | 3.7 | 4.6 | 3.8 | 3.9 | 3.9 | 3.9 | 2.5 | 3.3 | 1.9 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.019 | 0.019 | 0.018 | 0.017 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 23 | 25 | 24 | 23 | 23 | 21 | 21 | 20 | 20 | 20 |
| | 99th Percentile | NS | 2 | 76 | 63 | 77 | 67 | 51 | 48 | 53 | 85 | 39 | 46 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.007 | 0.007 | 0.008 | 0.008 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.027 | 0.031 | 0.021 | 0.022 | 0.013 | 0.011 | 0.013 | 0.006 | 0.014 | 0.012 |
| CANTON-MASSILLON, OH | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | DOWN | 2 | 0.13 | 0.09 | 0.09 | 0.10 | 0.08 | 0.09 | 0.08 | 0.09 | 0.09 | 0.08 |
| | 2nd Daily Max. 1-hr | DOWN | 2 | 0.14 | 0.11 | 0.10 | 0.11 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 34 | 35 | 30 | 31 | 28 | 26 | 28 | 29 | 25 | 26 |
| | 99th Percentile | NS | 2 | 98 | 94 | 72 | 64 | 68 | 66 | 72 | 73 | 77 | 56 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.011 | 0.012 | 0.011 | 0.010 | 0.010 | 0.010 | 0.009 | 0.006 | 0.006 | 0.007 |
| | 2nd Max. 24-hr | NS | 1 | 0.039 | 0.041 | 0.036 | 0.037 | 0.040 | 0.046 | 0.052 | 0.033 | 0.032 | 0.025 |
| CEDAR RAPIDS, IA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 2 | 3.9 | 3.2 | 4.2 | 4.3 | 4.6 | 3.7 | 3.8 | 2.6 | 5.2 | 2.5 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.07 | 0.07 | 0.06 | 0.06 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 35 | 33 | 28 | 29 | 27 | 22 | 23 | 23 | 23 | 23 |
| | 99th Percentile | NS | 3 | 70 | 79 | 104 | 63 | 71 | 64 | 50 | 56 | 71 | 53 |
| SO ₂ | Arithmetic Mean | DOWN | 5 | 0.006 | 0.007 | 0.006 | 0.006 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 5 | 0.047 | 0.049 | 0.048 | 0.040 | 0.036 | 0.037 | 0.029 | 0.028 | 0.023 | 0.024 |
| CHAMPAIGN-URBANA, IL | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.10 | 0.08 | 0.08 | 0.09 | 0.08 | 0.07 | 0.09 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.11 | 0.09 | 0.10 | 0.10 | 0.09 | 0.08 | 0.10 | 0.10 | 0.09 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 32 | 32 | 28 | 30 | 31 | 22 | 25 | 22 | 19 | 23 |
| | 99th Percentile | DOWN | 1 | 86 | 86 | 68 | 70 | 75 | 51 | 53 | 53 | 49 | 46 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.005 | 0.005 | 0.004 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.025 | 0.025 | 0.030 | 0.038 | 0.018 | 0.015 | 0.024 | 0.011 | 0.013 | 0.018 |
| CHARLESTON-NORTH CHARLESTON, SC | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 7.5 | 5.9 | 4.7 | 4.9 | 5.2 | 5.8 | 4.0 | 6.4 | 4.7 | 3.9 |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.03 | 0.02 | 0.03 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.09 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.11 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.10 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 28 | 29 | 28 | 25 | 23 | 21 | 20 | 19 | 19 | 19 |
| | 99th Percentile | DOWN | 3 | 87 | 74 | 72 | 90 | 73 | 52 | 59 | 63 | 63 | 43 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.005 | 0.005 | 0.003 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.063 | 0.044 | 0.027 | 0.030 | 0.035 | 0.025 | 0.038 | 0.019 | 0.021 | 0.022 |
| CHARLESTON, WV | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 2.8 | 2.9 | 2.8 | 3.1 | 3.3 | 2.2 | 3.5 | 2.4 | 2.3 | 1.9 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.02 | 0.02 | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.024 | 0.021 | 0.020 | 0.020 | 0.017 | 0.018 | 0.019 | 0.020 | 0.020 | 0.020 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.12 | 0.07 | 0.08 | 0.09 | 0.06 | 0.06 | 0.08 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.16 | 0.10 | 0.12 | 0.12 | 0.07 | 0.08 | 0.10 | 0.11 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 37 | 35 | 36 | 29 | 28 | 29 | 28 | 26 | 24 | 21 |
| | 99th Percentile | DOWN | 1 | 104 | 89 | 115 | 68 | 60 | 70 | 59 | 96 | 68 | 46 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.013 | 0.014 | 0.012 | 0.009 | 0.009 | 0.009 | 0.010 | 0.007 | 0.008 | 0.009 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.049 | 0.062 | 0.056 | 0.036 | 0.031 | 0.034 | 0.037 | 0.023 | 0.031 | 0.031 |
| CHARLOTTE-GASTONIA-ROCK HILL, NC-SC | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 5 | 6.7 | 7.0 | 7.1 | 6.3 | 6.0 | 5.6 | 5.8 | 4.7 | 4.4 | 4.8 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.07 | 0.03 | 0.04 | 0.01 | 0.08 | 0.02 | 0.03 | 0.01 | 0.01 | 0.01 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.017 | 0.017 | 0.017 | 0.016 | 0.016 | 0.017 | 0.016 | 0.016 | 0.016 | 0.016 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.12 | 0.09 | 0.10 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.10 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.16 | 0.12 | 0.12 | 0.12 | 0.10 | 0.13 | 0.11 | 0.11 | 0.13 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 35 | 34 | 33 | 30 | 30 | 29 | 29 | 26 | 28 | 27 |
| | 99th Percentile | DOWN | 2 | 74 | 68 | 63 | 91 | 60 | 58 | 55 | 50 | 52 | 56 |
| CHARLOTTESVILLE, VA | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 40 | 30 | 27 | 28 | 22 | 24 | 22 | 23 | 21 | 21 |
| | 99th Percentile | DOWN | 1 | 106 | 64 | 73 | 58 | 38 | 60 | 40 | 57 | 39 | 51 |
| CHATTANOOGA, TN-GA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.10 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.12 | 0.10 | 0.12 | 0.10 | 0.09 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 39 | 36 | 38 | 38 | 34 | 32 | 33 | 32 | 32 | 27 |
| | 99th Percentile | DOWN | 2 | 80 | 69 | 75 | 87 | 79 | 69 | 65 | 60 | 64 | 60 |
| CHICAGO, IL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 6 | 5.0 | 4.8 | 5.3 | 4.3 | 4.8 | 4.7 | 6.5 | 3.7 | 3.2 | 3.3 |
| LEAD | Max. Quarterly Mean | DOWN | 8 | 0.15 | 0.10 | 0.08 | 0.06 | 0.07 | 0.06 | 0.06 | 0.05 | 0.04 | 0.04 |
| NO ₂ | Arithmetic Mean | NS | 4 | 0.030 | 0.029 | 0.025 | 0.023 | 0.027 | 0.027 | 0.030 | 0.030 | 0.030 | 0.030 |
| OZONE | 4th Max. 8-hr | NS | 16 | 0.10 | 0.08 | 0.07 | 0.09 | 0.07 | 0.07 | 0.08 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 16 | 0.14 | 0.11 | 0.09 | 0.11 | 0.10 | 0.09 | 0.10 | 0.12 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 12 | 39 | 39 | 36 | 34 | 33 | 32 | 36 | 33 | 30 | 30 |
| | 99th Percentile | DOWN | 12 | 97 | 94 | 105 | 83 | 84 | 84 | 112 | 80 | 65 | 70 |
| SO ₂ | Arithmetic Mean | DOWN | 8 | 0.008 | 0.007 | 0.006 | 0.007 | 0.005 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 |
| | 2nd Max. 24-hr | NS | 8 | 0.030 | 0.027 | 0.024 | 0.029 | 0.025 | 0.028 | 0.030 | 0.022 | 0.021 | 0.021 |
| CHICO-PARADISE, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 7.2 | 6.4 | 6.2 | 7.4 | 5.9 | 4.7 | 4.6 | 4.1 | 4.4 | 4.0 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.016 | 0.016 | 0.015 | 0.016 | 0.016 | 0.016 | 0.015 | 0.014 | 0.013 | 0.013 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.10 | 0.10 | 0.12 | 0.09 | 0.09 | 0.09 | 0.10 | 0.09 | 0.10 | 0.07 |
| CINCINNATI, OH-KY-IN | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 3 | 3.8 | 4.9 | 4.2 | 4.2 | 4.5 | 4.7 | 4.3 | 3.4 | 2.9 | 2.7 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.09 | 0.07 | 0.04 | 0.04 | 0.04 | 0.05 | 0.04 | 0.06 | 0.04 | 0.03 |
| NO2 | Arithmetic Mean | NS | 2 | 0.023 | 0.024 | 0.022 | 0.022 | 0.021 | 0.022 | 0.022 | 0.021 | 0.022 | 0.023 |
| OZONE | 4th Max. 8-hr | NS | 7 | 0.11 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 7 | 0.14 | 0.11 | 0.11 | 0.12 | 0.09 | 0.10 | 0.11 | 0.12 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 7 | 40 | 41 | 36 | 32 | 30 | 31 | 30 | 31 | 28 | 29 |
| | 99th Percentile | DOWN | 7 | 107 | 98 | 98 | 71 | 67 | 71 | 80 | 72 | 67 | 68 |
| SO ₂ | Arithmetic Mean | DOWN | 5 | 0.011 | 0.011 | 0.012 | 0.011 | 0.010 | 0.011 | 0.008 | 0.006 | 0.008 | 0.008 |
| | 2nd Max. 24-hr | DOWN | 5 | 0.049 | 0.046 | 0.058 | 0.041 | 0.041 | 0.039 | 0.041 | 0.025 | 0.033 | 0.035 |
| CLARKSVILLE-HOPKINSVILLE, TN-KY | | | | | | | | | | | | | |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.010 | 0.007 | 0.007 | 0.006 | 0.009 | 0.010 | 0.007 | 0.006 | 0.006 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.066 | 0.042 | 0.038 | 0.029 | 0.036 | 0.058 | 0.037 | 0.019 | 0.023 | 0.026 |
| CLEVELAND-LORAIN-ELYRIA, OH | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 2 | 5.7 | 5.9 | 4.7 | 4.7 | 5.1 | 4.3 | 5.3 | 5.7 | 3.7 | 3.5 |
| LEAD | Max. Quarterly Mean | DOWN | 4 | 0.26 | 0.19 | 0.32 | 0.18 | 0.21 | 0.21 | 0.14 | 0.11 | 0.06 | 0.06 |
| NO2 | Arithmetic Mean | DOWN | 1 | 0.023 | 0.025 | 0.022 | 0.022 | 0.021 | 0.022 | 0.021 | 0.021 | 0.020 | 0.020 |
| OZONE | 4th Max. 8-hr | NS | 6 | 0.11 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 6 | 0.14 | 0.10 | 0.11 | 0.11 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | NS | 7 | 42 | 41 | 36 | 38 | 33 | 32 | 39 | 36 | 33 | 34 |
| | 99th Percentile | DOWN | 7 | 118 | 119 | 97 | 90 | 94 | 85 | 102 | 114 | 89 | 84 |
| SO ₂ | Arithmetic Mean | DOWN | 9 | 0.011 | 0.012 | 0.010 | 0.010 | 0.009 | 0.008 | 0.008 | 0.006 | 0.006 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 9 | 0.044 | 0.042 | 0.041 | 0.039 | 0.038 | 0.039 | 0.040 | 0.023 | 0.030 | 0.029 |
| COLORADO SPRINGS, CO | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 8 | 6.1 | 5.0 | 4.0 | 4.3 | 3.5 | 3.3 | 3.2 | 3.3 | 3.1 | 3.1 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 |
| NO2 | Arithmetic Mean | NS | 6 | 0.014 | 0.014 | 0.013 | 0.014 | 0.015 | 0.014 | 0.015 | 0.015 | 0.014 | 0.014 |
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.06 | 0.07 | 0.06 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.08 | 0.08 | 0.07 | 0.08 | 0.07 | 0.06 | 0.07 | 0.07 | 0.07 | 0.06 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 13 | 28 | 27 | 22 | 25 | 22 | 22 | 21 | 19 | 20 | 20 |
| | 99th Percentile | DOWN | 13 | 81 | 77 | 80 | 77 | 59 | 60 | 58 | 49 | 52 | 53 |
| SO ₂ | Arithmetic Mean | NS | 6 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.003 | 0.004 | 0.004 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | NS | 6 | 0.013 | 0.012 | 0.012 | 0.013 | 0.012 | 0.014 | 0.015 | 0.013 | 0.010 | 0.010 |
| COLUMBIA, SC | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 7.4 | 6.5 | 5.8 | 6.0 | 6.3 | 5.6 | 4.7 | 4.0 | 3.4 | 2.9 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.06 | 0.03 | 0.03 | 0.05 | 0.04 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.10 | 0.09 | 0.09 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.12 | 0.11 | 0.11 | 0.10 | 0.10 | 0.12 | 0.10 | 0.10 | 0.09 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 31 | 30 | 29 | 25 | 26 | 24 | 24 | 20 | 23 | 23 |
| | 99th Percentile | DOWN | 4 | 76 | 75 | 60 | 53 | 60 | 50 | 60 | 48 | 54 | 50 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | NS | 2 | 0.019 | 0.016 | 0.015 | 0.019 | 0.018 | 0.014 | 0.013 | 0.010 | 0.016 | 0.015 |
| COLUMBUS, GA-AL | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.09 | 0.10 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.09 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 26 | 26 | 29 | 27 | 26 | 25 | 27 | 28 | 22 | 26 |
| | 99th Percentile | NS | 1 | 49 | 49 | 68 | 75 | 56 | 74 | 52 | 62 | 63 | 68 |
| COLUMBUS, OH | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 3 | 6.0 | 5.7 | 4.1 | 4.8 | 4.9 | 3.9 | 4.5 | 3.8 | 2.5 | 2.4 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.08 | 0.08 | 0.06 | 0.06 | 0.06 | 0.04 | 0.04 | 0.04 | 0.03 | 0.04 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.11 | 0.09 | 0.08 | 0.09 | 0.07 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.14 | 0.11 | 0.11 | 0.12 | 0.09 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 31 | 34 | 32 | 31 | 27 | 27 | 27 | 29 | 26 | 28 |
| | 99th Percentile | DOWN | 3 | 81 | 86 | 85 | 71 | 70 | 69 | 69 | 80 | 70 | 69 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.008 | 0.008 | 0.008 | 0.007 | 0.006 | 0.007 | 0.007 | 0.004 | 0.004 | 0.004 |
| | 2nd Max. 24-hr | NS | 1 | 0.035 | 0.038 | 0.038 | 0.033 | 0.030 | 0.034 | 0.041 | 0.019 | 0.021 | 0.025 |
| CORPUS CHRISTI, TX | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.10 | 0.10 | 0.11 | 0.09 | 0.12 | 0.11 | 0.12 | 0.10 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | NS | 2 | 28 | 30 | 27 | 31 | 29 | 29 | 28 | 28 | 23 | 25 |
| | 99th Percentile | NS | 2 | 77 | 77 | 63 | 86 | 98 | 83 | 67 | 57 | 49 | 61 |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.025 | 0.019 | 0.013 | 0.027 | 0.018 | 0.024 | 0.012 | 0.016 | 0.013 | 0.012 |
| CUMBERLAND, MD-WV | | | | | | | | | | | | | |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.013 | 0.011 | 0.010 | 0.009 | 0.006 | 0.008 | 0.010 | 0.005 | 0.003 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.055 | 0.049 | 0.031 | 0.028 | 0.024 | 0.027 | 0.037 | 0.015 | 0.019 | 0.020 |
| DALLAS, TX | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 8.0 | 4.5 | 4.7 | 3.8 | 5.6 | 5.4 | 5.3 | 5.9 | 5.5 | 3.7 |
| LEAD | Max. Quarterly Mean | DOWN | 9 | 0.23 | 0.20 | 0.21 | 0.16 | 0.18 | 0.19 | 0.11 | 0.13 | 0.08 | 0.07 |
| NO2 | Arithmetic Mean | UP | 1 | 0.014 | 0.012 | 0.012 | 0.013 | 0.015 | 0.014 | 0.016 | 0.019 | 0.019 | 0.018 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | |
|--|----------------------|----------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| OZONE | 4th Max. 8-hr | NS | 2 | 0.10 | 0.10 | 0.10 | 0.06 | 0.09 | 0.10 | 0.09 | 0.11 | 0.09 | 0.09 | |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.13 | 0.13 | 0.14 | 0.10 | 0.12 | 0.13 | 0.12 | 0.14 | 0.12 | 0.12 | |
| | PM ₁₀ | Weighted Annual Mean | NS | 5 | 29 | 29 | 28 | 26 | 26 | 27 | 26 | 30 | 30 | 26 |
| | | 99th Percentile | NS | 5 | 60 | 61 | 65 | 63 | 81 | 75 | 54 | 80 | 79 | 68 |
| DANBURY, CT | | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.14 | 0.10 | 0.11 | 0.10 | 0.08 | 0.10 | 0.09 | 0.09 | 0.08 | 0.11 | |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.20 | 0.13 | 0.15 | 0.14 | 0.12 | 0.14 | 0.13 | 0.13 | 0.11 | 0.14 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 26 | 25 | 22 | 26 | 22 | 19 | 26 | 22 | 22 | 21 | |
| | 99th Percentile | NS | 1 | 65 | 52 | 59 | 59 | 58 | 58 | 56 | 69 | 48 | 47 | |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.009 | 0.008 | 0.007 | 0.008 | 0.007 | 0.006 | 0.006 | 0.004 | 0.005 | 0.005 | |
| | 2nd Max. 24-hr | DOWN | 1 | 0.051 | 0.036 | 0.033 | 0.032 | 0.027 | 0.024 | 0.037 | 0.020 | 0.020 | 0.024 | |
| DAVENPORT-MOLINE-ROCK ISLAND, IA-IL | | | | | | | | | | | | | | |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.01 | 0.02 | 0.03 | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.09 | 0.08 | 0.07 | 0.08 | 0.08 | 0.07 | 0.07 | 0.08 | 0.08 | 0.07 | |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.11 | 0.10 | 0.08 | 0.09 | 0.10 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 | |
| PM ₁₀ | Weighted Annual Mean | NS | 3 | 33 | 32 | 31 | 30 | 29 | 28 | 32 | 34 | 31 | 32 | |
| | 99th Percentile | NS | 3 | 106 | 106 | 115 | 62 | 67 | 73 | 81 | 84 | 101 | 85 | |
| SO ₂ | Arithmetic Mean | DOWN | 3 | 0.004 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | |
| | 2nd Max. 24-hr | DOWN | 3 | 0.023 | 0.025 | 0.022 | 0.020 | 0.019 | 0.018 | 0.023 | 0.017 | 0.016 | 0.015 | |
| DAYTON-SPRINGFIELD, OH | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 4.0 | 4.8 | 3.2 | 3.5 | 3.6 | 3.6 | 3.4 | 3.0 | 2.4 | 3.0 | |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.08 | 0.06 | 0.05 | 0.04 | 0.04 | 0.06 | 0.04 | 0.05 | 0.04 | 0.04 | |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.11 | 0.09 | 0.09 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 0.09 | |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.13 | 0.12 | 0.11 | 0.11 | 0.10 | 0.11 | 0.11 | 0.12 | 0.11 | 0.11 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 32 | 31 | 26 | 28 | 25 | 25 | 24 | 26 | 23 | 24 | |
| | 99th Percentile | NS | 3 | 83 | 80 | 86 | 60 | 63 | 60 | 61 | 68 | 65 | 58 | |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.006 | 0.006 | 0.004 | 0.005 | 0.005 | |
| | 2nd Max. 24-hr | NS | 2 | 0.026 | 0.031 | 0.023 | 0.022 | 0.020 | 0.031 | 0.032 | 0.016 | 0.027 | 0.027 | |
| DECATUR, AL | | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 25 | 25 | 25 | 28 | 25 | 25 | 22 | 25 | 21 | 23 | |
| | 99th Percentile | NS | 1 | 62 | 62 | 62 | 68 | 50 | 64 | 66 | 65 | 53 | 55 | |
| DECATUR, IL | | | | | | | | | | | | | | |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.10 | 0.07 | 0.03 | 0.03 | 0.03 | 0.03 | 0.05 | 0.03 | 0.02 | 0.03 | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.09 | 0.08 | 0.08 | 0.09 | 0.08 | 0.07 | 0.08 | 0.08 | 0.09 | 0.08 | |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.11 | 0.09 | 0.09 | 0.10 | 0.09 | 0.08 | 0.10 | 0.10 | 0.10 | 0.09 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 40 | 40 | 34 | 36 | 38 | 28 | 29 | 30 | 28 | 27 | |
| | 99th Percentile | DOWN | 1 | 99 | 98 | 88 | 85 | 75 | 64 | 66 | 59 | 55 | 56 | |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.015 | 0.012 | 0.008 | 0.007 | 0.005 | 0.006 | 0.007 | 0.005 | 0.005 | 0.006 | |
| | 2nd Max. 24-hr | DOWN | 1 | 0.162 | 0.108 | 0.060 | 0.039 | 0.023 | 0.025 | 0.030 | 0.024 | 0.022 | 0.021 | |
| DENVER, CO | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 6 | 9.9 | 7.8 | 7.2 | 7.0 | 8.3 | 6.6 | 6.1 | 5.6 | 4.8 | 4.7 | |
| LEAD | Max. Quarterly Mean | DOWN | 3 | 0.07 | 0.05 | 0.06 | 0.05 | 0.06 | 0.06 | 0.04 | 0.05 | 0.03 | 0.02 | |
| NO ₂ | Arithmetic Mean | DOWN | 2 | 0.033 | 0.033 | 0.032 | 0.032 | 0.032 | 0.027 | 0.032 | 0.029 | 0.027 | 0.029 | |
| OZONE | 4th Max. 8-hr | DOWN | 5 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | |
| | 2nd Daily Max. 1-hr | DOWN | 5 | 0.11 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 10 | 28 | 27 | 26 | 26 | 26 | 29 | 25 | 21 | 22 | 23 | |
| | 99th Percentile | NS | 10 | 75 | 96 | 87 | 89 | 115 | 99 | 74 | 55 | 56 | 72 | |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.006 | 0.006 | 0.004 | 0.005 | 0.005 | |
| | 2nd Max. 24-hr | NS | 2 | 0.022 | 0.023 | 0.020 | 0.026 | 0.038 | 0.025 | 0.025 | 0.016 | 0.020 | 0.021 | |
| DES MOINES, IA | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 3 | 3.9 | 4.4 | 4.6 | 4.6 | 3.9 | 4.5 | 3.9 | 4.0 | 3.2 | 3.0 | |
| OZONE | 4th Max. 8-hr | UP | 2 | 0.04 | 0.05 | 0.04 | 0.04 | 0.07 | 0.05 | 0.05 | 0.07 | 0.06 | 0.06 | |
| | 2nd Daily Max. 1-hr | UP | 2 | 0.06 | 0.06 | 0.07 | 0.06 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | |
| PM ₁₀ | Weighted Annual Mean | NS | 3 | 35 | 33 | 32 | 29 | 28 | 29 | 30 | 30 | 31 | 33 | |
| | 99th Percentile | NS | 3 | 86 | 89 | 94 | 67 | 84 | 79 | 99 | 80 | 91 | 93 | |
| DETROIT, MI | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 6 | 5.4 | 6.0 | 4.5 | 5.1 | 4.2 | 4.5 | 6.6 | 4.5 | 3.9 | 3.3 | |
| LEAD | Max. Quarterly Mean | DOWN | 5 | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.04 | |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.023 | 0.025 | 0.024 | 0.022 | 0.021 | 0.022 | 0.025 | 0.022 | 0.020 | 0.026 | |
| OZONE | 4th Max. 8-hr | NS | 8 | 0.10 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.08 | 0.08 | |
| | 2nd Daily Max. 1-hr | NS | 8 | 0.14 | 0.12 | 0.10 | 0.12 | 0.10 | 0.10 | 0.12 | 0.12 | 0.10 | 0.11 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 38 | 39 | 36 | 33 | 28 | 33 | 38 | 35 | 31 | 28 | |
| | 99th Percentile | NS | 6 | 100 | 91 | 93 | 83 | 77 | 95 | 102 | 91 | 74 | 81 | |
| SO ₂ | Arithmetic Mean | DOWN | 10 | 0.010 | 0.010 | 0.010 | 0.008 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.005 | |
| | 2nd Max. 24-hr | DOWN | 10 | 0.039 | 0.037 | 0.038 | 0.033 | 0.030 | 0.030 | 0.032 | 0.030 | 0.034 | 0.027 | |
| DOTHAN, AL | | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 26 | 26 | 31 | 28 | 25 | 26 | 28 | 28 | 22 | 25 | |
| | 99th Percentile | NS | 1 | 54 | 54 | 82 | 68 | 70 | 64 | 97 | 57 | 65 | 58 | |
| DUBUQUE, IA | | | | | | | | | | | | | | |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.005 | 0.006 | 0.003 | 0.003 | |
| | 2nd Max. 24-hr | DOWN | 1 | 0.052 | 0.030 | 0.037 | 0.028 | 0.029 | 0.014 | 0.037 | 0.027 | 0.022 | 0.022 | |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| DULUTH-SUPERIOR, MN-WI | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 5.1 | 9.9 | 4.4 | 5.2 | 4.0 | 4.1 | 4.3 | 4.5 | 4.5 | 3.2 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 27 | 26 | 22 | 23 | 20 | 19 | 19 | 19 | 19 | 19 |
| | 99th Percentile | NS | 6 | 65 | 58 | 61 | 69 | 64 | 45 | 55 | 59 | 55 | 51 |
| EL PASO, TX | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 5 | 9.1 | 9.8 | 10.9 | 9.1 | 8.1 | 8.0 | 6.6 | 6.8 | 8.4 | 6.9 |
| LEAD | Max. Quarterly Mean | DOWN | 4 | 0.26 | 0.30 | 0.27 | 0.27 | 0.19 | 0.18 | 0.12 | 0.13 | 0.20 | 0.09 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.021 | 0.022 | 0.017 | 0.019 | 0.021 | 0.021 | 0.023 | 0.023 | 0.023 | 0.021 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 3 | 0.14 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.13 | 0.11 | 0.12 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 47 | 42 | 36 | 30 | 30 | 27 | 28 | 31 | 29 | 25 |
| | 99th Percentile | NS | 6 | 122 | 116 | 109 | 83 | 89 | 64 | 84 | 100 | 96 | 94 |
| SO ₂ | Arithmetic Mean | DOWN | 3 | 0.014 | 0.013 | 0.010 | 0.010 | 0.012 | 0.009 | 0.007 | 0.008 | 0.008 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 3 | 0.059 | 0.055 | 0.055 | 0.047 | 0.053 | 0.049 | 0.029 | 0.038 | 0.036 | 0.031 |
| ELMIRA, NY | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.10 | 0.07 | 0.08 | 0.09 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.12 | 0.09 | 0.10 | 0.10 | 0.09 | 0.09 | 0.08 | 0.09 | 0.09 | 0.08 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.007 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.027 | 0.026 | 0.021 | 0.022 | 0.021 | 0.019 | 0.023 | 0.014 | 0.016 | 0.015 |
| ERIE, PA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 4.9 | 4.4 | 5.1 | 3.8 | 3.6 | 4.4 | 3.7 | 3.2 | 3.2 | 3.2 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.016 | 0.015 | 0.015 | 0.013 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 | 0.015 |
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.12 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.15 | 0.12 | 0.10 | 0.11 | 0.10 | 0.11 | 0.10 | 0.11 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 35 | 27 | 27 | 29 | 22 | 26 | 29 | 29 | 29 | 29 |
| | 99th Percentile | NS | 1 | 111 | 73 | 75 | 81 | 57 | 72 | 57 | 115 | 115 | 115 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.014 | 0.014 | 0.014 | 0.010 | 0.011 | 0.011 | 0.010 | 0.009 | 0.011 | 0.009 |
| | 2nd Max. 24-hr | NS | 1 | 0.050 | 0.074 | 0.057 | 0.044 | 0.056 | 0.072 | 0.076 | 0.050 | 0.066 | 0.035 |
| EUGENE-SPRINGFIELD, OR | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 7.1 | 6.0 | 4.8 | 5.4 | 6.0 | 4.7 | 5.3 | 4.7 | 4.6 | 4.7 |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.09 | 0.06 | 0.07 | 0.07 | 0.07 | 0.05 | 0.07 | 0.06 | 0.09 | 0.06 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.12 | 0.08 | 0.09 | 0.09 | 0.10 | 0.08 | 0.09 | 0.08 | 0.11 | 0.07 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 35 | 31 | 28 | 33 | 29 | 29 | 25 | 23 | 20 | 21 |
| | 99th Percentile | DOWN | 4 | 102 | 109 | 88 | 121 | 89 | 89 | 91 | 72 | 64 | 64 |
| EVANSVILLE-HENDERSON, IN-KY | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 3.1 | 2.3 | 2.5 | 2.0 | 2.3 | 2.6 | 2.7 | 2.7 | 2.0 | 2.3 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.022 | 0.020 | 0.018 | 0.021 | 0.018 | 0.017 | 0.018 | 0.017 | 0.017 | 0.016 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.10 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.10 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.12 | 0.10 | 0.10 | 0.10 | 0.09 | 0.10 | 0.11 | 0.11 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 38 | 36 | 32 | 34 | 30 | 30 | 33 | 32 | 26 | 27 |
| | 99th Percentile | NS | 3 | 86 | 86 | 85 | 65 | 61 | 70 | 110 | 74 | 53 | 61 |
| SO ₂ | Arithmetic Mean | DOWN | 7 | 0.012 | 0.013 | 0.014 | 0.013 | 0.012 | 0.012 | 0.012 | 0.010 | 0.011 | 0.011 |
| | 2nd Max. 24-hr | DOWN | 7 | 0.059 | 0.056 | 0.062 | 0.061 | 0.068 | 0.051 | 0.048 | 0.042 | 0.048 | 0.048 |
| FARGO-MOORHEAD, ND-MN | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 21 | 21 | 21 | 19 | 21 | 18 | 18 | 20 | 20 | 20 |
| | 99th Percentile | NS | 1 | 57 | 51 | 76 | 59 | 58 | 46 | 44 | 56 | 56 | 56 |
| FAYETTEVILLE-SPRINGDALE-ROGERS, AR | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 26 | 26 | 23 | 24 | 22 | 24 | 25 | 24 | 23 | 20 |
| | 99th Percentile | DOWN | 1 | 66 | 66 | 60 | 47 | 64 | 60 | 53 | 52 | 57 | 54 |
| FAYETTEVILLE, NC | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 33 | 29 | 31 | 27 | 26 | 27 | 25 | 23 | 25 | 25 |
| | 99th Percentile | NS | 1 | 79 | 55 | 59 | 53 | 56 | 59 | 58 | 44 | 53 | 59 |
| FLINT, MI | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.11 | 0.08 | 0.08 | 0.09 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.13 | 0.10 | 0.10 | 0.10 | 0.09 | 0.10 | 0.09 | 0.09 | 0.10 | 0.10 |
| FLORENCE, AL | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 24 | 24 | 24 | 24 | 21 | 23 | 20 | 22 | 18 | 19 |
| | 99th Percentile | DOWN | 1 | 77 | 77 | 77 | 61 | 43 | 55 | 57 | 55 | 48 | 44 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.007 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.050 | 0.036 | 0.027 | 0.025 | 0.019 | 0.022 | 0.022 | 0.018 | 0.019 | 0.020 |
| FORT COLLINS-LOVELAND, CO | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 11.3 | 8.3 | 7.0 | 9.8 | 6.9 | 6.6 | 6.0 | 5.2 | 5.1 | 5.2 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 28 | 29 | 23 | 25 | 23 | 22 | 22 | 22 | 20 | 16 |
| | 99th Percentile | NS | 1 | 84 | 60 | 52 | 59 | 41 | 62 | 51 | 57 | 61 | 40 |
| FORT LAUDERDALE, FL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 4 | 3.5 | 4.4 | 3.4 | 3.6 | 4.0 | 3.6 | 3.5 | 3.5 | 3.0 | 3.1 |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.04 | 0.03 | 0.01 | 0.02 | 0.04 | 0.03 | 0.03 | 0.02 | 0.05 | 0.04 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OZONE 4th Max. 8-hr | NS | 3 | 0.07 | 0.08 | 0.07 | 0.06 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 |
| 2nd Daily Max. 1-hr | DOWN | 3 | 0.11 | 0.11 | 0.09 | 0.09 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 |
| FORT MYERS-CAPE CORAL, FL | | | | | | | | | | | | |
| OZONE 4th Max. 8-hr | DOWN | 1 | 0.08 | 0.08 | 0.07 | 0.06 | 0.07 | 0.07 | 0.08 | 0.07 | 0.06 | 0.07 |
| 2nd Daily Max. 1-hr | DOWN | 1 | 0.10 | 0.10 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.07 | 0.08 |
| FORT SMITH, AR-OK | | | | | | | | | | | | |
| PM ₁₀ Weighted Annual Mean | DOWN | 1 | 28 | 28 | 26 | 25 | 24 | 25 | 24 | 26 | 25 | 22 |
| 99th Percentile | NS | 1 | 57 | 57 | 65 | 61 | 61 | 61 | 47 | 57 | 67 | 68 |
| FORT WAYNE, IN | | | | | | | | | | | | |
| OZONE 4th Max. 8-hr | NS | 1 | 0.10 | 0.09 | 0.08 | 0.09 | 0.09 | 0.08 | 0.10 | 0.09 | 0.09 | 0.09 |
| 2nd Daily Max. 1-hr | NS | 1 | 0.12 | 0.12 | 0.09 | 0.10 | 0.09 | 0.10 | 0.11 | 0.11 | 0.11 | 0.10 |
| PM ₁₀ Weighted Annual Mean | DOWN | 1 | 29 | 29 | 27 | 27 | 23 | 23 | 24 | 24 | 17 | 20 |
| 99th Percentile | DOWN | 1 | 75 | 75 | 81 | 57 | 51 | 63 | 50 | 54 | 49 | 50 |
| FORT WORTH-ARLINGTON, TX | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | DOWN | 2 | 5.1 | 4.8 | 4.2 | 3.7 | 4.0 | 3.4 | 3.2 | 3.2 | 3.0 | 3.0 |
| LEAD Max. Quarterly Mean | DOWN | 2 | 0.05 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 |
| NO ₂ Arithmetic Mean | UP | 1 | 0.014 | 0.013 | 0.012 | 0.014 | 0.015 | 0.013 | 0.017 | 0.017 | 0.015 | 0.016 |
| OZONE 4th Max. 8-hr | NS | 2 | 0.10 | 0.10 | 0.10 | 0.11 | 0.08 | 0.09 | 0.10 | 0.10 | 0.09 | 0.09 |
| 2nd Daily Max. 1-hr | NS | 2 | 0.14 | 0.13 | 0.14 | 0.15 | 0.12 | 0.11 | 0.13 | 0.14 | 0.13 | 0.12 |
| PM ₁₀ Weighted Annual Mean | NS | 3 | 25 | 24 | 24 | 23 | 21 | 21 | 20 | 24 | 25 | 22 |
| 99th Percentile | NS | 3 | 64 | 63 | 52 | 76 | 57 | 64 | 43 | 62 | 61 | 55 |
| SO ₂ Arithmetic Mean | NS | 1 | 0.002 | 0.001 | 0.002 | 0.002 | 0.003 | 0.001 | 0.002 | 0.001 | 0.001 | 0.001 |
| 2nd Max. 24-hr | NS | 1 | 0.010 | 0.007 | 0.008 | 0.006 | 0.013 | 0.005 | 0.006 | 0.004 | 0.011 | 0.011 |
| FRESNO, CA | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | DOWN | 3 | 6.1 | 6.0 | 6.0 | 6.6 | 4.9 | 4.4 | 5.3 | 4.4 | 4.4 | 3.7 |
| NO ₂ Arithmetic Mean | DOWN | 3 | 0.021 | 0.022 | 0.021 | 0.022 | 0.020 | 0.021 | 0.020 | 0.020 | 0.019 | 0.019 |
| OZONE 4th Max. 8-hr | NS | 4 | 0.11 | 0.10 | 0.10 | 0.11 | 0.10 | 0.11 | 0.10 | 0.10 | 0.11 | 0.10 |
| 2nd Daily Max. 1-hr | DOWN | 4 | 0.15 | 0.14 | 0.14 | 0.15 | 0.14 | 0.14 | 0.13 | 0.13 | 0.14 | 0.13 |
| PM ₁₀ Weighted Annual Mean | DOWN | 4 | 57 | 57 | 57 | 56 | 45 | 43 | 41 | 41 | 35 | 41 |
| 99th Percentile | DOWN | 4 | 196 | 196 | 196 | 138 | 102 | 129 | 114 | 118 | 99 | 123 |
| GADSDEN, AL | | | | | | | | | | | | |
| PM ₁₀ Weighted Annual Mean | DOWN | 2 | 36 | 28 | 33 | 32 | 31 | 33 | 30 | 30 | 23 | 26 |
| 99th Percentile | NS | 2 | 76 | 60 | 67 | 88 | 74 | 83 | 71 | 69 | 56 | 60 |
| GALVESTON-TEXAS CITY, TX | | | | | | | | | | | | |
| LEAD Max. Quarterly Mean | DOWN | 1 | 0.04 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 |
| OZONE 4th Max. 8-hr | NS | 1 | 0.10 | 0.10 | 0.09 | 0.09 | 0.07 | 0.11 | 0.09 | 0.14 | 0.08 | 0.10 |
| 2nd Daily Max. 1-hr | NS | 1 | 0.14 | 0.14 | 0.15 | 0.15 | 0.10 | 0.18 | 0.13 | 0.20 | 0.11 | 0.18 |
| PM ₁₀ Weighted Annual Mean | DOWN | 3 | 27 | 28 | 24 | 22 | 24 | 24 | 23 | 25 | 19 | 20 |
| 99th Percentile | NS | 3 | 58 | 66 | 60 | 86 | 88 | 81 | 49 | 72 | 56 | 86 |
| SO ₂ Arithmetic Mean | NS | 1 | 0.008 | 0.008 | 0.007 | 0.007 | 0.005 | 0.005 | 0.006 | 0.006 | 0.014 | 0.006 |
| 2nd Max. 24-hr | NS | 1 | 0.045 | 0.045 | 0.063 | 0.050 | 0.039 | 0.056 | 0.052 | 0.089 | 0.067 | 0.053 |
| GARY, IN | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | NS | 2 | 4.4 | 4.3 | 4.2 | 4.1 | 4.4 | 4.7 | 5.6 | 3.9 | 3.3 | 3.7 |
| LEAD Max. Quarterly Mean | DOWN | 4 | 0.47 | 0.23 | 0.21 | 0.11 | 0.11 | 0.08 | 0.17 | 0.12 | 0.13 | 0.10 |
| OZONE 4th Max. 8-hr | NS | 4 | 0.12 | 0.08 | 0.08 | 0.09 | 0.08 | 0.07 | 0.08 | 0.10 | 0.09 | 0.09 |
| 2nd Daily Max. 1-hr | NS | 4 | 0.15 | 0.10 | 0.10 | 0.11 | 0.11 | 0.09 | 0.11 | 0.12 | 0.11 | 0.11 |
| PM ₁₀ Weighted Annual Mean | DOWN | 8 | 35 | 33 | 33 | 29 | 26 | 24 | 26 | 25 | 21 | 21 |
| 99th Percentile | DOWN | 8 | 105 | 88 | 88 | 73 | 72 | 66 | 63 | 59 | 50 | 53 |
| SO ₂ Arithmetic Mean | DOWN | 5 | 0.010 | 0.011 | 0.010 | 0.008 | 0.007 | 0.007 | 0.006 | 0.005 | 0.005 | 0.005 |
| 2nd Max. 24-hr | DOWN | 5 | 0.052 | 0.047 | 0.048 | 0.028 | 0.028 | 0.032 | 0.032 | 0.022 | 0.023 | 0.024 |
| GLENS FALLS, NY | | | | | | | | | | | | |
| SO ₂ Arithmetic Mean | DOWN | 1 | 0.005 | 0.004 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.003 | 0.002 | 0.002 |
| 2nd Max. 24-hr | DOWN | 1 | 0.040 | 0.023 | 0.040 | 0.020 | 0.017 | 0.018 | 0.027 | 0.011 | 0.013 | 0.013 |
| GRAND FORKS, ND-MN | | | | | | | | | | | | |
| PM ₁₀ Weighted Annual Mean | DOWN | 1 | 24 | 24 | 25 | 20 | 18 | 17 | 16 | 18 | 15 | 15 |
| 99th Percentile | DOWN | 1 | 54 | 54 | 139 | 84 | 64 | 41 | 39 | 50 | 41 | 41 |
| GRAND RAPIDS-MUSKEGON-HOLLAND, MI | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | NS | 1 | 4.1 | 4.5 | 3.5 | 4.0 | 3.2 | 3.2 | 4.0 | 4.6 | 3.3 | 2.4 |
| LEAD Max. Quarterly Mean | DOWN | 3 | 0.04 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| OZONE 4th Max. 8-hr | NS | 3 | 0.11 | 0.09 | 0.10 | 0.10 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 |
| 2nd Daily Max. 1-hr | DOWN | 3 | 0.14 | 0.13 | 0.12 | 0.12 | 0.10 | 0.10 | 0.11 | 0.12 | 0.12 | 0.10 |
| PM ₁₀ Weighted Annual Mean | DOWN | 2 | 28 | 29 | 30 | 26 | 35 | 22 | 27 | 21 | 20 | 19 |
| 99th Percentile | DOWN | 2 | 78 | 80 | 79 | 65 | 129 | 63 | 73 | 66 | 53 | 47 |
| SO ₂ Arithmetic Mean | DOWN | 1 | 0.004 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 |
| 2nd Max. 24-hr | DOWN | 1 | 0.016 | 0.016 | 0.012 | 0.014 | 0.015 | 0.012 | 0.013 | 0.011 | 0.011 | 0.008 |
| GREAT FALLS, MT | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | NS | 1 | 5.6 | 5.6 | 5.6 | 6.6 | 5.8 | 6.9 | 4.8 | 6.2 | 5.4 | 6.4 |
| PM ₁₀ Weighted Annual Mean | NS | 1 | 20 | 20 | 24 | 21 | 21 | 21 | 21 | 18 | 19 | 20 |
| 99th Percentile | NS | 1 | 69 | 69 | 109 | 124 | 53 | 61 | 48 | 52 | 69 | 62 |
| GREELEY, CO | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | DOWN | 1 | 9.2 | 7.3 | 7.1 | 7.8 | 7.5 | 5.8 | 5.2 | 5.3 | 7.0 | 4.8 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|---------------------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OZONE | 4th Max. 8-hr | NS | 1 | 0.07 | 0.07 | 0.08 | 0.08 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.10 | 0.10 | 0.11 | 0.10 | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 40 | 30 | 25 | 26 | 25 | 23 | 23 | 20 | 18 | 18 |
| | 99th Percentile | DOWN | 1 | 84 | 73 | 66 | 80 | 60 | 99 | 57 | 59 | 56 | 56 |
| GREEN BAY, WI | SO ₂ Arithmetic Mean | DOWN | 1 | 0.007 | 0.006 | 0.005 | 0.005 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.039 | 0.024 | 0.020 | 0.042 | 0.021 | 0.018 | 0.015 | 0.017 | 0.011 | 0.017 |
| GREENSBORO—WINSTON-SALEM—HIGH POINT, N | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 9.7 | 9.7 | 6.8 | 6.6 | 5.7 | 5.5 | 6.0 | 6.2 | 4.3 | 4.7 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.018 | 0.016 | 0.017 | 0.016 | 0.015 | 0.017 | 0.017 | 0.016 | 0.016 | 0.017 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.11 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.14 | 0.10 | 0.12 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 34 | 32 | 31 | 31 | 27 | 27 | 25 | 26 | 24 | 24 |
| | 99th Percentile | NS | 3 | 76 | 66 | 58 | 83 | 53 | 59 | 46 | 64 | 46 | 67 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.007 | 0.007 | 0.008 | 0.007 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 |
| | 2nd Max. 24-hr | NS | 1 | 0.031 | 0.024 | 0.023 | 0.027 | 0.019 | 0.022 | 0.021 | 0.025 | 0.026 | 0.023 |
| GREENVILLE-SPARTANBURG-ANDERSON, SC | | | | | | | | | | | | | |
| LEAD | Max. Quarterly Mean | DOWN | 3 | 0.06 | 0.04 | 0.04 | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.10 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.12 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.10 | 0.11 | 0.11 | 0.10 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.001 | 0.002 | 0.003 |
| | 2nd Max. 24-hr | NS | 1 | 0.011 | 0.011 | 0.011 | 0.017 | 0.013 | 0.012 | 0.016 | 0.007 | 0.012 | 0.014 |
| GREENVILLE, NC | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.10 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.12 | 0.10 | 0.10 | 0.09 | 0.10 | 0.11 | 0.09 | 0.10 | 0.10 | 0.12 |
| HAMILTON-MIDDLETOWN, OH | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.11 | 0.09 | 0.10 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.14 | 0.11 | 0.12 | 0.11 | 0.10 | 0.12 | 0.11 | 0.12 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 27 | 27 | 27 | 33 | 27 | 29 | 27 | 29 | 26 | 27 |
| | 99th Percentile | NS | 1 | 76 | 76 | 76 | 80 | 53 | 78 | 61 | 77 | 66 | 57 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.010 | 0.010 | 0.010 | 0.009 | 0.007 | 0.008 | 0.008 | 0.005 | 0.007 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.041 | 0.040 | 0.037 | 0.040 | 0.033 | 0.035 | 0.038 | 0.019 | 0.025 | 0.034 |
| HARRISBURG-LEBANON-CARLISLE, PA | | | | | | | | | | | | | |
| NO ₂ | Arithmetic Mean | NS | 2 | 0.014 | 0.014 | 0.013 | 0.014 | 0.013 | 0.011 | 0.015 | 0.014 | 0.015 | 0.013 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.11 | 0.09 | 0.09 | 0.10 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.14 | 0.10 | 0.11 | 0.11 | 0.09 | 0.11 | 0.12 | 0.11 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | NS | 2 | 27 | 25 | 23 | 25 | 21 | 24 | 27 | 25 | 24 | 26 |
| | 99th Percentile | NS | 2 | 84 | 69 | 62 | 68 | 41 | 65 | 87 | 67 | 57 | 70 |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.006 | 0.006 | 0.005 | 0.006 | 0.005 | 0.006 | 0.007 | 0.005 | 0.005 | 0.005 |
| | 2nd Max. 24-hr | NS | 2 | 0.024 | 0.029 | 0.021 | 0.021 | 0.022 | 0.021 | 0.035 | 0.017 | 0.021 | 0.022 |
| HARTFORD, CT | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 8.3 | 6.7 | 6.7 | 6.1 | 6.1 | 5.6 | 6.4 | 5.8 | 5.0 | 4.8 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.020 | 0.020 | 0.019 | 0.020 | 0.017 | 0.018 | 0.020 | 0.017 | 0.016 | 0.018 |
| OZONE | 4th Max. 8-hr | DOWN | 3 | 0.13 | 0.11 | 0.10 | 0.11 | 0.09 | 0.10 | 0.10 | 0.10 | 0.08 | 0.10 |
| | 2nd Daily Max. 1-hr | DOWN | 3 | 0.17 | 0.15 | 0.15 | 0.16 | 0.12 | 0.15 | 0.13 | 0.13 | 0.10 | 0.14 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 23 | 23 | 20 | 23 | 20 | 18 | 20 | 16 | 17 | 18 |
| | 99th Percentile | NS | 6 | 62 | 53 | 54 | 58 | 72 | 45 | 68 | 58 | 60 | 48 |
| SO ₂ | Arithmetic Mean | DOWN | 3 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.006 | 0.006 | 0.005 | 0.005 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 3 | 0.040 | 0.039 | 0.033 | 0.034 | 0.029 | 0.021 | 0.029 | 0.020 | 0.020 | 0.023 |
| HONOLULU, HI | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 3.3 | 3.4 | 2.9 | 2.6 | 2.8 | 3.1 | 3.1 | 2.5 | 2.4 | 2.3 |
| LEAD | Max. Quarterly Mean | NS | 2 | 0.01 | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.02 |
| OZONE | 4th Max. 8-hr | UP | 1 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 | 0.05 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.03 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 16 | 16 | 16 | 17 | 17 | 16 | 19 | 15 | 16 | 18 |
| | 99th Percentile | DOWN | 1 | 36 | 36 | 35 | 41 | 28 | 32 | 30 | 29 | 30 | 29 |
| HOUMA, LA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.09 | 0.10 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.11 | 0.11 | 0.12 | 0.10 | 0.09 | 0.10 | 0.10 | 0.14 | 0.09 | 0.10 |
| HOUSTON, TX | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 6.5 | 5.8 | 6.8 | 6.0 | 6.8 | 5.6 | 4.9 | 4.0 | 5.3 | 4.3 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.06 | 0.04 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 |
| NO ₂ | Arithmetic Mean | DOWN | 4 | 0.023 | 0.022 | 0.023 | 0.022 | 0.022 | 0.019 | 0.021 | 0.021 | 0.020 | 0.021 |
| OZONE | 4th Max. 8-hr | NS | 10 | 0.11 | 0.11 | 0.12 | 0.10 | 0.10 | 0.09 | 0.10 | 0.12 | 0.10 | 0.11 |
| | 2nd Daily Max. 1-hr | NS | 10 | 0.18 | 0.18 | 0.19 | 0.17 | 0.16 | 0.16 | 0.15 | 0.17 | 0.16 | 0.17 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 5 | 32 | 32 | 31 | 31 | 30 | 30 | 31 | 30 | 26 | 29 |
| | 99th Percentile | NS | 5 | 69 | 69 | 71 | 96 | 94 | 82 | 69 | 82 | 53 | 93 |
| SO ₂ | Arithmetic Mean | DOWN | 7 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 |
| | 2nd Max. 24-hr | DOWN | 7 | 0.027 | 0.026 | 0.025 | 0.025 | 0.022 | 0.020 | 0.018 | 0.026 | 0.022 | 0.017 |
| HUNTINGTON-ASHLAND, WV-KY-OH | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 3.9 | 5.5 | 4.7 | 4.4 | 4.1 | 3.8 | 5.2 | 3.8 | 3.7 | 3.8 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.13 | 0.06 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 | 0.04 | 0.03 | 0.04 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OZONE | 4th Max. 8-hr | DOWN | 3 | 0.11 | 0.09 | 0.09 | 0.10 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.13 | 0.12 | 0.11 | 0.13 | 0.10 | 0.11 | 0.13 | 0.12 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 37 | 35 | 35 | 33 | 30 | 29 | 32 | 31 | 28 | 30 |
| | 99th Percentile | NS | 4 | 91 | 89 | 99 | 63 | 68 | 63 | 68 | 76 | 66 | 73 |
| SO ₂ | Arithmetic Mean | DOWN | 7 | 0.016 | 0.014 | 0.013 | 0.012 | 0.010 | 0.011 | 0.010 | 0.009 | 0.008 | 0.008 |
| | 2nd Max. 24-hr | DOWN | 7 | 0.091 | 0.080 | 0.075 | 0.051 | 0.044 | 0.053 | 0.048 | 0.036 | 0.029 | 0.033 |
| HUNTSVILLE, AL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 5.0 | 5.2 | 4.2 | 4.1 | 4.2 | 4.0 | 3.5 | 3.6 | 3.0 | 3.1 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.10 | 0.07 | 0.08 | 0.08 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.13 | 0.09 | 0.09 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 31 | 31 | 30 | 28 | 30 | 23 | 21 | 22 | 21 | 21 |
| | 99th Percentile | DOWN | 1 | 62 | 62 | 71 | 78 | 76 | 58 | 50 | 54 | 46 | 49 |
| INDIANAPOLIS, IN | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 4.0 | 4.0 | 4.0 | 5.2 | 3.5 | 4.0 | 3.5 | 3.9 | 2.8 | 3.2 |
| LEAD | Max. Quarterly Mean | DOWN | 4 | 0.68 | 0.53 | 0.68 | 0.30 | 0.26 | 0.11 | 0.20 | 0.06 | 0.03 | 0.04 |
| OZONE | 4th Max. 8-hr | NS | 6 | 0.10 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 6 | 0.12 | 0.11 | 0.10 | 0.10 | 0.09 | 0.10 | 0.11 | 0.11 | 0.12 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 13 | 34 | 35 | 33 | 31 | 28 | 28 | 28 | 28 | 23 | 23 |
| | 99th Percentile | DOWN | 13 | 82 | 82 | 89 | 76 | 65 | 68 | 68 | 67 | 54 | 53 |
| SO ₂ | Arithmetic Mean | DOWN | 10 | 0.011 | 0.011 | 0.009 | 0.009 | 0.008 | 0.009 | 0.007 | 0.005 | 0.006 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 10 | 0.046 | 0.040 | 0.036 | 0.030 | 0.030 | 0.038 | 0.039 | 0.025 | 0.027 | 0.026 |
| JACKSON, MS | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.09 | 0.08 | 0.10 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 |
| JACKSON, TN | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 32 | 31 | 28 | 27 | 27 | 23 | 23 | 25 | 22 | 23 |
| | 99th Percentile | DOWN | 2 | 67 | 62 | 73 | 68 | 74 | 58 | 66 | 51 | 52 | 48 |
| JACKSONVILLE, FL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 5 | 5.2 | 5.5 | 4.2 | 3.7 | 4.1 | 4.0 | 3.8 | 3.6 | 3.1 | 2.6 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.06 | 0.04 | 0.04 | 0.03 | 0.02 | 0.05 | 0.02 | 0.03 | 0.02 | 0.02 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.019 | 0.015 | 0.015 | 0.014 | 0.014 | 0.015 | 0.014 | 0.016 | 0.015 | 0.014 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.11 | 0.11 | 0.11 | 0.09 | 0.10 | 0.11 | 0.10 | 0.11 | 0.09 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 34 | 36 | 34 | 32 | 26 | 27 | 26 | 27 | 24 | 24 |
| | 99th Percentile | NS | 3 | 72 | 63 | 62 | 64 | 69 | 66 | 51 | 63 | 57 | 55 |
| SO ₂ | Arithmetic Mean | DOWN | 5 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | DOWN | 5 | 0.047 | 0.037 | 0.037 | 0.023 | 0.023 | 0.025 | 0.030 | 0.019 | 0.020 | 0.017 |
| JAMESTOWN, NY | | | | | | | | | | | | | |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.014 | 0.014 | 0.012 | 0.013 | 0.011 | 0.011 | 0.010 | 0.009 | 0.008 | 0.008 |
| | 2nd Max. 24-hr | NS | 1 | 0.054 | 0.072 | 0.065 | 0.048 | 0.050 | 0.049 | 0.072 | 0.056 | 0.039 | 0.039 |
| JERSEY CITY, NJ | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 7.8 | 7.3 | 7.2 | 7.5 | 6.0 | 5.6 | 5.9 | 6.2 | 4.9 | 4.3 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.11 | 0.07 | 0.05 | 0.06 | 0.04 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.033 | 0.031 | 0.030 | 0.028 | 0.028 | 0.027 | 0.026 | 0.026 | 0.027 | 0.026 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.14 | 0.10 | 0.11 | 0.12 | 0.09 | 0.10 | 0.10 | 0.10 | 0.09 | 0.11 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.20 | 0.12 | 0.18 | 0.14 | 0.11 | 0.13 | 0.12 | 0.13 | 0.12 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | NS | 3 | 31 | 33 | 31 | 32 | 26 | 27 | 32 | 25 | 27 | 26 |
| | 99th Percentile | DOWN | 3 | 86 | 83 | 86 | 77 | 59 | 69 | 93 | 65 | 70 | 55 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.015 | 0.014 | 0.013 | 0.012 | 0.010 | 0.009 | 0.009 | 0.007 | 0.008 | 0.008 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.059 | 0.047 | 0.043 | 0.035 | 0.041 | 0.030 | 0.036 | 0.026 | 0.027 | 0.025 |
| JOHNSON CITY-KINGSPORT-BRISTOL, TN-VA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 3.7 | 3.7 | 3.4 | 3.3 | 3.0 | 6.5 | 3.4 | 3.0 | 3.0 | 3.5 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.019 | 0.019 | 0.019 | 0.019 | 0.018 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.09 | 0.08 | 0.10 | 0.08 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.12 | 0.11 | 0.12 | 0.12 | 0.10 | 0.13 | 0.10 | 0.11 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 31 | 31 | 32 | 32 | 29 | 29 | 28 | 27 | 26 | 25 |
| | 99th Percentile | NS | 3 | 71 | 71 | 67 | 75 | 58 | 76 | 54 | 60 | 62 | 63 |
| SO ₂ | Arithmetic Mean | NS | 3 | 0.011 | 0.010 | 0.009 | 0.009 | 0.009 | 0.008 | 0.009 | 0.008 | 0.009 | 0.009 |
| | 2nd Max. 24-hr | NS | 3 | 0.049 | 0.053 | 0.044 | 0.044 | 0.039 | 0.042 | 0.045 | 0.039 | 0.044 | 0.050 |
| JOHNSTOWN, PA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 4.3 | 4.1 | 3.7 | 4.8 | 4.4 | 4.2 | 4.1 | 3.5 | 4.8 | 2.7 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.30 | 0.31 | 0.16 | 0.19 | 0.14 | 0.06 | 0.05 | 0.06 | 0.06 | 0.06 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.019 | 0.019 | 0.018 | 0.019 | 0.018 | 0.017 | 0.018 | 0.015 | 0.018 | 0.016 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.12 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.14 | 0.10 | 0.10 | 0.11 | 0.09 | 0.10 | 0.10 | 0.11 | 0.09 | 0.10 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.017 | 0.017 | 0.014 | 0.015 | 0.013 | 0.015 | 0.014 | 0.012 | 0.011 | 0.009 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.054 | 0.089 | 0.046 | 0.043 | 0.052 | 0.049 | 0.080 | 0.042 | 0.034 | 0.030 |
| KALAMAZOO-BATTLE CREEK, MI | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 38 | 34 | 28 | 29 | 27 | 24 | 26 | 26 | 22 | 23 |
| | 99th Percentile | DOWN | 1 | 103 | 79 | 94 | 94 | 66 | 66 | 74 | 63 | 79 | 49 |
| KANSAS CITY, MO-KS | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 4.7 | 5.1 | 4.7 | 4.1 | 3.8 | 4.3 | 4.5 | 3.5 | 3.4 | 3.4 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|----------------------------------|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| LEAD | Max. Quarterly Mean | NS | 5 | 0.17 | 0.06 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.10 |
| NO2 | Arithmetic Mean | NS | 3 | 0.010 | 0.011 | 0.011 | 0.010 | 0.010 | 0.009 | 0.010 | 0.010 | 0.012 | 0.010 |
| OZONE | 4th Max. 8-hr | NS | 6 | 0.09 | 0.07 | 0.07 | 0.08 | 0.08 | 0.07 | 0.08 | 0.09 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 6 | 0.13 | 0.10 | 0.10 | 0.10 | 0.09 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 7 | 33 | 34 | 31 | 32 | 30 | 30 | 30 | 24 | 33 | 26 |
| | 99th Percentile | NS | 7 | 76 | 90 | 83 | 70 | 78 | 89 | 71 | 68 | 87 | 63 |
| SO ₂ | Arithmetic Mean | NS | 5 | 0.005 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 |
| | 2nd Max. 24-hr | NS | 5 | 0.022 | 0.016 | 0.022 | 0.017 | 0.016 | 0.020 | 0.025 | 0.018 | 0.024 | 0.013 |
| KENOSHA, WI | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.14 | 0.10 | 0.08 | 0.11 | 0.08 | 0.09 | 0.09 | 0.10 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.19 | 0.13 | 0.11 | 0.14 | 0.11 | 0.11 | 0.12 | 0.12 | 0.13 | 0.11 |
| KNOXVILLE, TN | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 6.1 | 6.7 | 5.1 | 4.5 | 4.5 | 4.6 | 4.3 | 4.1 | 3.3 | 4.8 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.10 | 0.07 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.12 | 0.09 | 0.11 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | 0.11 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 8 | 33 | 32 | 32 | 34 | 30 | 30 | 32 | 31 | 31 | 26 |
| | 99th Percentile | DOWN | 8 | 72 | 66 | 76 | 68 | 63 | 68 | 61 | 61 | 68 | 58 |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 |
| | 2nd Max. 24-hr | UP | 2 | 0.032 | 0.031 | 0.033 | 0.039 | 0.035 | 0.041 | 0.042 | 0.038 | 0.047 | 0.037 |
| LAKE CHARLES, LA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.10 | 0.09 | 0.09 | 0.09 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.13 | 0.12 | 0.11 | 0.12 | 0.11 | 0.10 | 0.10 | 0.11 | 0.09 | 0.11 |
| LAKELAND-WINTER HAVEN, FL | | | | | | | | | | | | | |
| SO ₂ | Arithmetic Mean | UP | 1 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.006 | 0.007 |
| | 2nd Max. 24-hr | NS | 1 | 0.016 | 0.016 | 0.022 | 0.016 | 0.018 | 0.019 | 0.016 | 0.014 | 0.021 | 0.017 |
| LANCASTER, PA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 3.4 | 4.1 | 3.4 | 2.6 | 2.6 | 3.0 | 3.8 | 2.4 | 2.6 | 3.3 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.07 | 0.05 | 0.06 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| NO2 | Arithmetic Mean | NS | 1 | 0.020 | 0.018 | 0.017 | 0.018 | 0.015 | 0.015 | 0.019 | 0.016 | 0.017 | 0.016 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.11 | 0.09 | 0.09 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.13 | 0.10 | 0.10 | 0.12 | 0.11 | 0.12 | 0.11 | 0.12 | 0.10 | 0.13 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 31 | 31 | 31 | 30 | 27 | 31 | 38 | 33 | 31 | 34 |
| | 99th Percentile | UP | 1 | 70 | 70 | 70 | 51 | 60 | 76 | 135 | 84 | 92 | 89 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.006 | 0.006 | 0.005 | 0.007 |
| | 2nd Max. 24-hr | NS | 1 | 0.028 | 0.037 | 0.028 | 0.023 | 0.023 | 0.026 | 0.030 | 0.018 | 0.021 | 0.023 |
| LANSING-EAST LANSING, MI | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.10 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | DOWN | 2 | 0.12 | 0.10 | 0.10 | 0.11 | 0.09 | 0.10 | 0.09 | 0.10 | 0.09 | 0.09 |
| LAS CRUCES, NM | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 2 | 5.0 | 4.5 | 4.6 | 5.0 | 3.8 | 6.0 | 4.1 | 3.7 | 3.7 | 3.9 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.18 | 0.16 | 0.17 | 0.15 | 0.13 | 0.12 | 0.05 | 0.09 | 0.07 | 0.07 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | NS | 3 | 44 | 45 | 35 | 31 | 31 | 30 | 33 | 34 | 33 | 27 |
| | 99th Percentile | NS | 3 | 136 | 120 | 92 | 84 | 87 | 80 | 91 | 111 | 102 | 93 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.010 | 0.010 | 0.011 | 0.010 | 0.009 | 0.006 | 0.004 | 0.004 | 0.004 | 0.003 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.068 | 0.061 | 0.056 | 0.055 | 0.052 | 0.055 | 0.023 | 0.021 | 0.030 | 0.014 |
| LAS VEGAS, NV-AZ | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 11.1 | 10.0 | 10.9 | 9.5 | 7.9 | 8.6 | 8.8 | 7.8 | 8.4 | 7.8 |
| NO2 | Arithmetic Mean | DOWN | 1 | 0.031 | 0.034 | 0.037 | 0.030 | 0.028 | 0.029 | 0.027 | 0.027 | 0.027 | 0.027 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.08 | 0.08 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 3 | 0.11 | 0.10 | 0.10 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 37 | 60 | 69 | 59 | 48 | 43 | 47 | 47 | 53 | 60 |
| | 99th Percentile | NS | 1 | 84 | 187 | 362 | 110 | 103 | 117 | 117 | 126 | 113 | 121 |
| LAWRENCE, MA-NH | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.11 | 0.08 | 0.07 | 0.09 | 0.07 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.13 | 0.11 | 0.09 | 0.12 | 0.09 | 0.10 | 0.10 | 0.08 | 0.09 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 21 | 21 | 21 | 18 | 19 | 18 | 16 | 13 | 14 | 15 |
| | 99th Percentile | NS | 1 | 41 | 41 | 41 | 45 | 74 | 57 | 54 | 29 | 35 | 42 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.008 | 0.009 | 0.008 | 0.007 | 0.008 | 0.008 | 0.006 | 0.006 | 0.005 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.031 | 0.036 | 0.029 | 0.026 | 0.027 | 0.026 | 0.027 | 0.025 | 0.019 | 0.020 |
| LAWTON, OK | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 32 | 32 | 30 | 27 | 26 | 27 | 28 | 25 | 28 | 26 |
| | 99th Percentile | NS | 1 | 104 | 74 | 100 | 71 | 53 | 59 | 62 | 52 | 70 | 71 |
| LEWISTON-AUBURN, ME | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 25 | 25 | 25 | 29 | 24 | 24 | 20 | 20 | 20 | 21 |
| | 99th Percentile | NS | 1 | 59 | 59 | 59 | 66 | 81 | 70 | 56 | 58 | 52 | 54 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.007 | 0.008 | 0.007 | 0.006 | 0.005 | 0.007 | 0.006 | 0.004 | 0.004 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.044 | 0.035 | 0.027 | 0.023 | 0.020 | 0.025 | 0.025 | 0.020 | 0.018 | 0.017 |
| LEXINGTON, KY | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 5.4 | 5.6 | 3.7 | 4.9 | 3.8 | 6.5 | 4.2 | 3.0 | 3.1 | 5.2 |
| NO2 | Arithmetic Mean | DOWN | 1 | 0.018 | 0.019 | 0.017 | 0.016 | 0.016 | 0.017 | 0.016 | 0.017 | 0.014 | 0.014 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OZONE | 4th Max. 8-hr | NS | 2 | 0.11 | 0.09 | 0.08 | 0.08 | 0.06 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.12 | 0.11 | 0.10 | 0.09 | 0.08 | 0.10 | 0.10 | 0.11 | 0.09 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 30 | 30 | 28 | 28 | 24 | 25 | 27 | 26 | 24 | 23 |
| | 99th Percentile | DOWN | 2 | 82 | 82 | 67 | 61 | 62 | 58 | 83 | 63 | 58 | 56 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.007 | 0.006 | 0.006 | 0.008 | 0.007 | 0.007 | 0.008 | 0.006 | 0.006 | 0.006 |
| | 2nd Max. 24-hr | NS | 1 | 0.027 | 0.034 | 0.020 | 0.025 | 0.030 | 0.026 | 0.037 | 0.016 | 0.020 | 0.016 |
| LIMA, OH | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.09 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.09 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.006 | 0.006 | 0.005 | 0.006 | 0.004 | 0.005 | 0.004 | 0.003 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | NS | 1 | 0.024 | 0.033 | 0.026 | 0.021 | 0.020 | 0.023 | 0.036 | 0.015 | 0.015 | 0.016 |
| LINCOLN, NE | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 6.4 | 6.1 | 6.2 | 7.4 | 4.5 | 4.3 | 4.0 | 4.9 | 3.4 | 5.0 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.07 | 0.06 | 0.06 | 0.06 | 0.07 | 0.05 | 0.06 | 0.06 | 0.05 | 0.05 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.08 | 0.06 | 0.07 | 0.07 | 0.07 | 0.06 | 0.08 | 0.07 | 0.06 | 0.06 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 29 | 33 | 29 | 30 | 25 | 26 | 28 | 25 | 28 | 24 |
| | 99th Percentile | NS | 2 | 63 | 65 | 62 | 100 | 51 | 54 | 49 | 67 | 80 | 55 |
| LITTLE ROCK-NORTH LITTLE ROCK, AR | | | | | | | | | | | | | |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.010 | 0.009 | 0.009 | 0.009 | 0.012 | 0.009 | 0.011 | 0.011 | 0.011 | 0.010 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.09 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.11 | 0.09 | 0.10 | 0.10 | 0.09 | 0.10 | 0.09 | 0.11 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 30 | 29 | 29 | 25 | 28 | 27 | 27 | 29 | 26 | 25 |
| | 99th Percentile | NS | 4 | 73 | 80 | 69 | 55 | 74 | 64 | 62 | 65 | 52 | 78 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.002 | 0.002 | 0.003 | 0.003 | 0.005 | 0.006 | 0.003 | 0.002 | 0.002 | 0.002 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.016 | 0.010 | 0.014 | 0.012 | 0.012 | 0.017 | 0.009 | 0.008 | 0.009 | 0.006 |
| LONGVIEW-MARSHALL, TX | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.09 | 0.08 | 0.10 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.12 | 0.10 | 0.13 | 0.11 | 0.10 | 0.11 | 0.10 | 0.15 | 0.11 | 0.12 |
| LOS ANGELES-LONG BEACH, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 13 | 10.1 | 9.6 | 9.0 | 8.8 | 7.8 | 6.8 | 8.0 | 7.5 | 6.8 | 6.6 |
| LEAD | Max. Quarterly Mean | DOWN | 6 | 0.15 | 0.09 | 0.09 | 0.10 | 0.08 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 |
| NO ₂ | Arithmetic Mean | DOWN | 13 | 0.046 | 0.044 | 0.041 | 0.041 | 0.038 | 0.036 | 0.039 | 0.038 | 0.035 | 0.033 |
| OZONE | 4th Max. 8-hr | DOWN | 14 | 0.14 | 0.14 | 0.12 | 0.13 | 0.13 | 0.12 | 0.11 | 0.11 | 0.10 | 0.09 |
| | 2nd Daily Max. 1-hr | DOWN | 14 | 0.23 | 0.22 | 0.19 | 0.19 | 0.20 | 0.17 | 0.17 | 0.15 | 0.14 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 9 | 57 | 57 | 49 | 53 | 41 | 40 | 39 | 39 | 38 | 39 |
| | 99th Percentile | DOWN | 9 | 149 | 155 | 152 | 192 | 104 | 91 | 103 | 120 | 104 | 88 |
| SO ₂ | Arithmetic Mean | DOWN | 4 | 0.005 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| | 2nd Max. 24-hr | DOWN | 4 | 0.019 | 0.015 | 0.012 | 0.013 | 0.015 | 0.011 | 0.008 | 0.008 | 0.008 | 0.007 |
| LOUISVILLE, KY-IN | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 3 | 5.9 | 6.0 | 5.9 | 5.9 | 4.2 | 4.6 | 5.1 | 3.8 | 3.3 | 4.5 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.07 | 0.05 | 0.04 | 0.05 | 0.05 | 0.05 | 0.02 | 0.05 | 0.02 | 0.02 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.11 | 0.08 | 0.08 | 0.09 | 0.07 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.16 | 0.11 | 0.11 | 0.12 | 0.09 | 0.13 | 0.12 | 0.12 | 0.11 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 38 | 35 | 34 | 33 | 30 | 29 | 30 | 29 | 26 | 29 |
| | 99th Percentile | NS | 6 | 90 | 77 | 74 | 67 | 62 | 70 | 104 | 68 | 72 | 78 |
| SO ₂ | Arithmetic Mean | DOWN | 4 | 0.010 | 0.010 | 0.010 | 0.010 | 0.009 | 0.010 | 0.010 | 0.008 | 0.007 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 4 | 0.044 | 0.055 | 0.041 | 0.037 | 0.034 | 0.035 | 0.040 | 0.028 | 0.031 | 0.031 |
| LOWELL, MA-NH | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 6.4 | 5.3 | 7.3 | 5.8 | 5.9 | 5.1 | 6.5 | 7.8 | 4.5 | 3.6 |
| LUBBOCK, TX | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 36 | 34 | 24 | 25 | 22 | 20 | 23 | 21 | 22 | 17 |
| | 99th Percentile | NS | 1 | 100 | 94 | 61 | 66 | 58 | 56 | 81 | 64 | 85 | 38 |
| LYNCHBURG, VA | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 31 | 30 | 24 | 28 | 24 | 26 | 23 | 24 | 23 | 23 |
| | 99th Percentile | NS | 1 | 80 | 58 | 53 | 89 | 50 | 68 | 51 | 55 | 46 | 55 |
| MADISON, WI | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 34 | 34 | 24 | 25 | 22 | 21 | 22 | 23 | 20 | 20 |
| | 99th Percentile | DOWN | 1 | 90 | 90 | 54 | 61 | 42 | 85 | 61 | 64 | 52 | 37 |
| MANSFIELD, OH | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 27 | 27 | 27 | 27 | 26 | 28 | 29 | 25 | 24 | 23 |
| | 99th Percentile | NS | 1 | 67 | 67 | 67 | 71 | 68 | 66 | 58 | 61 | 68 | 63 |
| MEDFORD-ASHLAND, OR | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 11.3 | 11.0 | 8.2 | 8.1 | 6.4 | 6.9 | 6.2 | 5.3 | 6.4 | 5.7 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.05 | 0.04 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 54 | 54 | 42 | 40 | 36 | 35 | 33 | 26 | 24 | 26 |
| | 99th Percentile | DOWN | 3 | 171 | 179 | 117 | 144 | 102 | 88 | 78 | 59 | 66 | 74 |
| MELBOURNE-TITUSVILLE-PALM BAY, FL | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | DOWN | 2 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.10 | 0.08 | 0.09 | 0.08 | 0.09 | 0.09 | 0.08 | 0.09 | 0.09 |
| MEMPHIS, TN-AR-MS | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 5 | 6.4 | 8.2 | 7.5 | 6.1 | 7.7 | 7.6 | 7.3 | 6.0 | 5.3 | 5.0 |
| LEAD | Max. Quarterly Mean | DOWN | 3 | 1.01 | 1.03 | 0.98 | 0.64 | 0.77 | 0.83 | 0.80 | 0.54 | 0.96 | 0.36 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|----------------------------------|----------------------|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO ₂ | Arithmetic Mean | NS | 1 | 0.032 | 0.026 | 0.023 | 0.024 | 0.026 | 0.026 | 0.027 | 0.027 | 0.024 | 0.028 |
| | OZONE | 4th Max. 8-hr | NS | 3 | 0.10 | 0.08 | 0.09 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 |
| PM ₁₀ | 2nd Daily Max. 1-hr | NS | 3 | 0.13 | 0.11 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.13 | 0.12 |
| | Weighted Annual Mean | DOWN | 2 | 31 | 31 | 31 | 27 | 28 | 29 | 27 | 27 | 27 | 26 |
| SO ₂ | 99th Percentile | NS | 2 | 69 | 68 | 76 | 67 | 59 | 69 | 69 | 65 | 73 | 63 |
| | Arithmetic Mean | DOWN | 2 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.005 | 0.004 | 0.003 | 0.003 |
| MERCED, CA | 2nd Max. 24-hr | DOWN | 2 | 0.029 | 0.029 | 0.027 | 0.025 | 0.031 | 0.029 | 0.025 | 0.019 | 0.011 | 0.011 |
| | Weighted Annual Mean | DOWN | 1 | 52 | 52 | 53 | 52 | 46 | 43 | 39 | 39 | 31 | 31 |
| MIAMI, FL | 99th Percentile | DOWN | 1 | 114 | 148 | 211 | 145 | 98 | 121 | 131 | 100 | 61 | 61 |
| | CO | 2nd Max. 8-hr | DOWN | 2 | 4.8 | 7.3 | 6.0 | 7.2 | 6.2 | 5.3 | 4.4 | 4.9 | 4.5 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.05 | 0.05 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | NO ₂ | Arithmetic Mean | NS | 2 | 0.012 | 0.013 | 0.011 | 0.011 | 0.011 | 0.012 | 0.010 | 0.011 | 0.011 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.08 | 0.08 | 0.07 | 0.06 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.11 | 0.11 | 0.10 | 0.09 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 28 | 27 | 28 | 26 | 27 | 27 | 26 | 24 | 25 | 23 |
| | 99th Percentile | UP | 3 | 52 | 50 | 53 | 61 | 71 | 95 | 74 | 73 | 63 | 66 |
| SO ₂ | Arithmetic Mean | UP | 1 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.001 |
| | 2nd Max. 24-hr | UP | 1 | 0.002 | 0.003 | 0.003 | 0.003 | 0.005 | 0.004 | 0.004 | 0.004 | 0.005 | 0.004 |
| MIDDLESEX-SOMERSET-HUNTERDON, NJ | CO | 2nd Max. 8-hr | DOWN | 1 | 5.3 | 5.4 | 5.4 | 4.2 | 3.9 | 3.7 | 4.3 | 5.3 | 3.3 |
| | LEAD | Max. Quarterly Mean | DOWN | 1 | 0.38 | 0.38 | 0.30 | 1.15 | 1.22 | 0.33 | 0.12 | 0.07 | 0.06 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.13 | 0.10 | 0.11 | 0.11 | 0.09 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.16 | 0.13 | 0.14 | 0.12 | 0.12 | 0.12 | 0.11 | 0.12 | 0.11 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 34 | 34 | 29 | 30 | 25 | 25 | 27 | 22 | 25 | 25 |
| | 99th Percentile | DOWN | 1 | 67 | 67 | 60 | 72 | 55 | 62 | 68 | 59 | 46 | 46 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.012 | 0.010 | 0.007 | 0.007 | 0.006 | 0.005 | 0.005 | 0.004 | 0.005 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.043 | 0.037 | 0.032 | 0.025 | 0.026 | 0.018 | 0.028 | 0.018 | 0.024 | 0.019 |
| MILWAUKEE-WAUKESHA, WI | CO | 2nd Max. 8-hr | DOWN | 6 | 4.2 | 3.9 | 4.5 | 3.7 | 3.2 | 4.1 | 4.4 | 2.9 | 2.0 |
| | LEAD | Max. Quarterly Mean | DOWN | 1 | 0.10 | 0.06 | 0.08 | 0.06 | 0.05 | 0.04 | 0.03 | 0.05 | 0.03 |
| NO ₂ | Arithmetic Mean | DOWN | 2 | 0.023 | 0.024 | 0.022 | 0.021 | 0.021 | 0.020 | 0.021 | 0.021 | 0.020 | 0.020 |
| | OZONE | 4th Max. 8-hr | NS | 6 | 0.11 | 0.10 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.10 | 0.08 |
| PM ₁₀ | 2nd Daily Max. 1-hr | NS | 6 | 0.15 | 0.13 | 0.11 | 0.14 | 0.10 | 0.10 | 0.12 | 0.12 | 0.11 | 0.12 |
| | Weighted Annual Mean | DOWN | 4 | 32 | 35 | 33 | 29 | 26 | 26 | 28 | 27 | 25 | 24 |
| SO ₂ | 99th Percentile | DOWN | 4 | 94 | 86 | 80 | 83 | 57 | 77 | 81 | 68 | 57 | 54 |
| | Arithmetic Mean | DOWN | 2 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.003 | 0.004 | 0.003 | 0.004 | 0.004 |
| MINNEAPOLIS-ST. PAUL, MN-WI | 2nd Max. 24-hr | DOWN | 2 | 0.035 | 0.030 | 0.039 | 0.034 | 0.026 | 0.024 | 0.027 | 0.023 | 0.025 | 0.025 |
| | CO | 2nd Max. 8-hr | DOWN | 3 | 7.7 | 9.0 | 6.5 | 7.2 | 5.9 | 5.2 | 6.4 | 6.0 | 5.1 |
| LEAD | Max. Quarterly Mean | DOWN | 3 | 0.55 | 0.38 | 0.77 | 0.31 | 0.25 | 0.12 | 0.07 | 0.23 | 0.12 | 0.09 |
| | NO ₂ | Arithmetic Mean | NS | 2 | 0.013 | 0.013 | 0.013 | 0.012 | 0.012 | 0.013 | 0.014 | 0.013 | 0.014 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.06 | 0.07 | 0.08 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.10 | 0.09 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.10 | 0.09 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 9 | 31 | 30 | 28 | 26 | 22 | 22 | 23 | 23 | 22 | |
| | 99th Percentile | DOWN | 9 | 87 | 81 | 99 | 63 | 71 | 58 | 59 | 58 | 71 | 49 |
| SO ₂ | Arithmetic Mean | DOWN | 8 | 0.004 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 |
| | 2nd Max. 24-hr | DOWN | 8 | 0.020 | 0.021 | 0.020 | 0.021 | 0.019 | 0.015 | 0.014 | 0.012 | 0.013 | 0.013 |
| MOBILE, AL | OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.07 | 0.08 | 0.05 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.09 | 0.10 | 0.07 | 0.10 | 0.09 | 0.09 | 0.11 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 35 | 31 | 31 | 32 | 34 | 32 | 31 | 29 | 25 | 26 |
| | 99th Percentile | NS | 4 | 80 | 76 | 61 | 70 | 93 | 77 | 61 | 57 | 53 | 62 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.008 | 0.008 | 0.008 | 0.009 | 0.010 | 0.010 | 0.011 | 0.009 | 0.009 | 0.008 |
| | 2nd Max. 24-hr | NS | 1 | 0.054 | 0.064 | 0.038 | 0.050 | 0.054 | 0.066 | 0.052 | 0.053 | 0.070 | 0.049 |
| MODESTO, CA | CO | 2nd Max. 8-hr | DOWN | 1 | 9.7 | 11.8 | 10.5 | 9.4 | 5.9 | 6.6 | 6.3 | 5.4 | 5.6 |
| | LEAD | Max. Quarterly Mean | DOWN | 1 | 0.04 | 0.04 | 0.04 | 0.04 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.027 | 0.027 | 0.026 | 0.024 | 0.022 | 0.024 | 0.023 | 0.022 | 0.022 | 0.021 |
| | OZONE | 4th Max. 8-hr | NS | 1 | 0.09 | 0.09 | 0.10 | 0.09 | 0.08 | 0.09 | 0.09 | 0.10 | 0.09 |
| PM ₁₀ | 2nd Daily Max. 1-hr | NS | 1 | 0.12 | 0.11 | 0.12 | 0.11 | 0.11 | 0.11 | 0.12 | 0.13 | 0.13 | |
| | Weighted Annual Mean | DOWN | 2 | 46 | 46 | 44 | 48 | 39 | 40 | 37 | 34 | 28 | 31 |
| MONMOUTH-OCEAN, NJ | 99th Percentile | DOWN | 2 | 151 | 151 | 162 | 142 | 136 | 134 | 136 | 99 | 101 | 103 |
| | CO | 2nd Max. 8-hr | DOWN | 2 | 6.6 | 6.1 | 5.7 | 5.5 | 4.7 | 5.3 | 4.9 | 3.8 | 4.4 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.11 | 0.11 | 0.11 | 0.11 | 0.09 | 0.10 | 0.08 | 0.11 | 0.09 | |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.14 | 0.14 | 0.14 | 0.15 | 0.14 | 0.13 | 0.11 | 0.15 | 0.12 | |
| MONTGOMERY, AL | OZONE | 4th Max. 8-hr | NS | 1 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.10 | 0.10 | 0.10 | 0.09 | 0.10 | 0.11 | 0.10 | 0.10 | 0.10 | |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|----------------------------------|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 23 | 23 | 27 | 26 | 24 | 23 | 25 | 26 | 23 | 24 |
| | 99th Percentile | NS | 1 | 53 | 53 | 62 | 61 | 49 | 70 | 47 | 75 | 68 | 57 |
| NASHUA, NH | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 2 | 5.7 | 6.2 | 7.1 | 6.9 | 6.8 | 5.2 | 7.5 | 6.8 | 7.7 | 4.7 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.024 | 0.022 | 0.019 | 0.016 | 0.015 | 0.016 | 0.015 | 0.014 | 0.019 | 0.016 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.10 | 0.07 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.14 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.10 | 0.10 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 5 | 22 | 22 | 18 | 19 | 17 | 17 | 15 | 14 | 16 | 18 |
| | 99th Percentile | NS | 5 | 65 | 53 | 50 | 53 | 80 | 43 | 43 | 46 | 43 | 53 |
| SO ₂ | Arithmetic Mean | DOWN | 3 | 0.008 | 0.008 | 0.007 | 0.005 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 3 | 0.044 | 0.040 | 0.036 | 0.024 | 0.025 | 0.022 | 0.028 | 0.023 | 0.021 | 0.025 |
| NASHVILLE, TN | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 3 | 6.5 | 7.4 | 5.9 | 5.0 | 5.5 | 6.4 | 5.4 | 4.8 | 3.9 | 4.7 |
| LEAD | Max. Quarterly Mean | NS | 4 | 1.29 | 0.66 | 1.45 | 1.21 | 1.05 | 0.91 | 0.98 | 1.93 | 0.62 | 0.65 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.012 | 0.012 | 0.012 | 0.010 | 0.014 | 0.012 | 0.020 | 0.014 | 0.012 | 0.012 |
| OZONE | 4th Max. 8-hr | NS | 7 | 0.10 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 7 | 0.12 | 0.10 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 5 | 38 | 37 | 36 | 35 | 31 | 31 | 30 | 31 | 28 | 28 |
| | 99th Percentile | DOWN | 5 | 80 | 79 | 78 | 75 | 62 | 81 | 71 | 67 | 64 | 61 |
| SO ₂ | Arithmetic Mean | DOWN | 4 | 0.008 | 0.008 | 0.009 | 0.009 | 0.006 | 0.007 | 0.006 | 0.004 | 0.005 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 5 | 0.047 | 0.053 | 0.050 | 0.056 | 0.025 | 0.043 | 0.038 | 0.024 | 0.033 | 0.037 |
| NASSAU-SUFFOLK, NY | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 9.1 | 6.5 | 7.2 | 6.6 | 5.6 | 5.6 | 5.4 | 5.0 | 4.9 | 4.7 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.033 | 0.029 | 0.028 | 0.029 | 0.026 | 0.026 | 0.028 | 0.025 | 0.026 | 0.025 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.12 | 0.11 | 0.11 | 0.11 | 0.09 | 0.10 | 0.09 | 0.11 | 0.09 | 0.11 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.16 | 0.15 | 0.14 | 0.18 | 0.13 | 0.13 | 0.13 | 0.15 | 0.12 | 0.14 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.008 | 0.010 | 0.009 | 0.009 | 0.008 | 0.008 | 0.007 | 0.005 | 0.007 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.056 | 0.045 | 0.045 | 0.039 | 0.039 | 0.033 | 0.037 | 0.030 | 0.028 | 0.029 |
| NEW BEDFORD, MA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.13 | 0.09 | 0.10 | 0.10 | 0.09 | 0.07 | 0.08 | 0.11 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.16 | 0.12 | 0.13 | 0.13 | 0.11 | 0.09 | 0.10 | 0.14 | 0.12 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 23 | 23 | 23 | 20 | 17 | 17 | 19 | 14 | 16 | 18 |
| | 99th Percentile | UP | 1 | 42 | 42 | 42 | 65 | 45 | 46 | 50 | 46 | 51 | 51 |
| NEW HAVEN-MERIDEN, CT | | | | | | | | | | | | | |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.029 | 0.028 | 0.027 | 0.028 | 0.025 | 0.027 | 0.030 | 0.025 | 0.026 | 0.024 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.12 | 0.10 | 0.10 | 0.12 | 0.08 | 0.09 | 0.09 | 0.10 | 0.08 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.17 | 0.15 | 0.13 | 0.16 | 0.12 | 0.14 | 0.14 | 0.14 | 0.11 | 0.14 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 7 | 31 | 31 | 29 | 32 | 26 | 27 | 28 | 23 | 22 | 22 |
| | 99th Percentile | NS | 7 | 71 | 69 | 86 | 87 | 69 | 72 | 81 | 71 | 63 | 57 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.015 | 0.012 | 0.010 | 0.010 | 0.009 | 0.008 | 0.008 | 0.006 | 0.006 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.071 | 0.071 | 0.045 | 0.055 | 0.042 | 0.038 | 0.049 | 0.031 | 0.027 | 0.028 |
| NEW LONDON-NORWICH, CT-RI | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.12 | 0.12 | 0.11 | 0.11 | 0.09 | 0.10 | 0.09 | 0.10 | 0.10 | 0.11 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.15 | 0.14 | 0.16 | 0.14 | 0.12 | 0.13 | 0.12 | 0.14 | 0.12 | 0.15 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 23 | 23 | 21 | 24 | 20 | 18 | 22 | 17 | 19 | 18 |
| | 99th Percentile | NS | 2 | 55 | 55 | 56 | 73 | 71 | 48 | 55 | 63 | 69 | 59 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.009 | 0.008 | 0.008 | 0.007 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.047 | 0.027 | 0.029 | 0.027 | 0.025 | 0.019 | 0.029 | 0.017 | 0.016 | 0.022 |
| NEW ORLEANS, LA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 6.1 | 6.1 | 4.9 | 4.2 | 5.4 | 5.1 | 4.6 | 3.6 | 4.0 | 3.3 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.10 | 0.09 | 0.05 | 0.03 | 0.03 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 |
| NO ₂ | Arithmetic Mean | DOWN | 2 | 0.019 | 0.017 | 0.016 | 0.015 | 0.017 | 0.016 | 0.015 | 0.016 | 0.015 | 0.014 |
| OZONE | 4th Max. 8-hr | NS | 5 | 0.09 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 5 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 26 | 31 | 27 | 26 | 27 | 25 | 25 | 24 | 22 | 25 |
| | 99th Percentile | NS | 1 | 57 | 68 | 75 | 59 | 72 | 85 | 53 | 55 | 58 | 100 |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.004 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 |
| | 2nd Max. 24-hr | NS | 2 | 0.017 | 0.017 | 0.013 | 0.023 | 0.018 | 0.019 | 0.021 | 0.019 | 0.025 | 0.016 |
| NEW YORK, NY | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 8.3 | 7.9 | 7.1 | 6.6 | 6.0 | 5.1 | 5.8 | 6.5 | 4.5 | 3.6 |
| LEAD | Max. Quarterly Mean | NS | 3 | 0.14 | 0.08 | 0.09 | 0.08 | 0.06 | 0.09 | 0.08 | 0.07 | 0.08 | 0.08 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.049 | 0.049 | 0.046 | 0.047 | 0.036 | 0.043 | 0.046 | 0.042 | 0.042 | 0.040 |
| OZONE | 4th Max. 8-hr | NS | 5 | 0.12 | 0.09 | 0.10 | 0.11 | 0.08 | 0.09 | 0.09 | 0.10 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 5 | 0.17 | 0.12 | 0.13 | 0.14 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 12 | 33 | 34 | 31 | 30 | 27 | 26 | 28 | 26 | 27 | 27 |
| | 99th Percentile | NS | 12 | 74 | 78 | 77 | 78 | 62 | 62 | 79 | 73 | 69 | 77 |
| SO ₂ | Arithmetic Mean | DOWN | 7 | 0.015 | 0.015 | 0.014 | 0.014 | 0.013 | 0.012 | 0.013 | 0.010 | 0.010 | 0.009 |
| | 2nd Max. 24-hr | DOWN | 7 | 0.060 | 0.060 | 0.054 | 0.048 | 0.051 | 0.039 | 0.054 | 0.038 | 0.040 | 0.033 |
| NEWARK, NJ | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 3 | 7.3 | 7.6 | 7.1 | 8.3 | 5.6 | 4.9 | 7.7 | 6.0 | 5.1 | 4.6 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.83 | 0.41 | 0.39 | 1.04 | 0.44 | 0.23 | 0.30 | 0.23 | 0.23 | 0.23 |
| NO ₂ | Arithmetic Mean | NS | 4 | 0.033 | 0.030 | 0.029 | 0.028 | 0.030 | 0.028 | 0.030 | 0.028 | 0.029 | 0.028 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | |
|---|----------------------|----------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| OZONE | 4th Max. 8-hr | NS | 2 | 0.13 | 0.09 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.10 | 0.09 | 0.10 | |
| | 2nd Daily Max. 1-hr | DOWN | 2 | 0.18 | 0.12 | 0.13 | 0.12 | 0.10 | 0.12 | 0.11 | 0.12 | 0.11 | 0.11 | |
| | PM ₁₀ | Weighted Annual Mean | NS | 3 | 35 | 35 | 31 | 30 | 29 | 30 | 35 | 28 | 31 | 31 |
| | | 99th Percentile | NS | 3 | 84 | 80 | 73 | 72 | 60 | 77 | 103 | 72 | 76 | 87 |
| SO ₂ | Arithmetic Mean | DOWN | 4 | 0.012 | 0.012 | 0.010 | 0.010 | 0.009 | 0.007 | 0.008 | 0.006 | 0.006 | 0.006 | |
| | 2nd Max. 24-hr | DOWN | 4 | 0.050 | 0.047 | 0.040 | 0.035 | 0.040 | 0.025 | 0.033 | 0.025 | 0.027 | 0.023 | |
| NEWBURGH, NY-PA | | | | | | | | | | | | | | |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 1.33 | 1.42 | 1.01 | 0.66 | 0.58 | 0.34 | 0.08 | 0.08 | 0.06 | 0.20 | |
| NORFOLK-VA BEACH-NEWPORT NEWS,VA-N | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 3 | 5.5 | 5.2 | 4.5 | 5.1 | 4.3 | 5.0 | 5.4 | 4.3 | 4.3 | 4.0 | |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.10 | 0.12 | 0.18 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 | 0.03 | |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.020 | 0.020 | 0.019 | 0.020 | 0.020 | 0.021 | 0.019 | 0.018 | 0.018 | 0.019 | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.11 | 0.08 | 0.09 | 0.08 | 0.09 | 0.10 | 0.08 | 0.08 | 0.08 | 0.09 | |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.13 | 0.10 | 0.11 | 0.10 | 0.13 | 0.13 | 0.10 | 0.10 | 0.10 | 0.11 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 28 | 27 | 26 | 26 | 23 | 23 | 20 | 21 | 22 | 22 | |
| | 99th Percentile | DOWN | 4 | 61 | 64 | 70 | 58 | 52 | 59 | 49 | 44 | 49 | 53 | |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.008 | 0.007 | 0.007 | 0.007 | 0.006 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | |
| | 2nd Max. 24-hr | NS | 2 | 0.032 | 0.033 | 0.025 | 0.022 | 0.024 | 0.026 | 0.024 | 0.022 | 0.022 | 0.025 | |
| OAKLAND, CA | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 6 | 4.9 | 4.9 | 4.8 | 4.8 | 4.0 | 3.4 | 3.6 | 2.7 | 2.9 | 2.9 | |
| LEAD | Max. Quarterly Mean | DOWN | 4 | 0.15 | 0.13 | 0.08 | 0.10 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | |
| NO ₂ | Arithmetic Mean | DOWN | 2 | 0.023 | 0.022 | 0.021 | 0.022 | 0.020 | 0.020 | 0.020 | 0.019 | 0.018 | 0.017 | |
| OZONE | 4th Max. 8-hr | NS | 7 | 0.08 | 0.07 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.07 | 0.06 | |
| | 2nd Daily Max. 1-hr | NS | 7 | 0.11 | 0.10 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.13 | 0.10 | 0.09 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 30 | 31 | 30 | 33 | 27 | 25 | 25 | 22 | 22 | 23 | |
| | 99th Percentile | DOWN | 3 | 87 | 100 | 127 | 115 | 82 | 79 | 87 | 53 | 58 | 56 | |
| SO ₂ | Arithmetic Mean | NS | 3 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | |
| | 2nd Max. 24-hr | DOWN | 3 | 0.010 | 0.013 | 0.011 | 0.010 | 0.009 | 0.010 | 0.007 | 0.007 | 0.007 | 0.008 | |
| OKLAHOMA CITY, OK | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 3 | 5.2 | 6.4 | 5.4 | 4.7 | 4.8 | 6.1 | 5.2 | 5.0 | 5.1 | 5.1 | |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.07 | 0.05 | 0.02 | 0.03 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | |
| NO ₂ | Arithmetic Mean | NS | 3 | 0.018 | 0.013 | 0.012 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.013 | |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.08 | 0.09 | 0.08 | 0.08 | |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.11 | 0.09 | 0.10 | |
| PM ₁₀ | Weighted Annual Mean | NS | 4 | 24 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 24 | 22 | |
| | 99th Percentile | NS | 4 | 59 | 59 | 55 | 53 | 65 | 49 | 49 | 57 | 64 | 55 | |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.010 | 0.007 | 0.004 | 0.002 | 0.002 | 0.003 | 0.004 | 0.002 | 0.002 | 0.002 | |
| | 2nd Max. 24-hr | DOWN | 1 | 0.041 | 0.015 | 0.019 | 0.005 | 0.009 | 0.008 | 0.007 | 0.006 | 0.006 | 0.006 | |
| OLYMPIA, WA | | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 35 | 28 | 24 | 25 | 24 | 24 | 17 | 17 | 16 | 16 | |
| | 99th Percentile | DOWN | 1 | 169 | 118 | 86 | 99 | 78 | 78 | 63 | 65 | 53 | 58 | |
| OMAHA, NE-IA | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 2 | 5.5 | 4.8 | 5.2 | 5.8 | 5.9 | 5.3 | 4.0 | 5.5 | 4.9 | 4.2 | |
| LEAD | Max. Quarterly Mean | DOWN | 5 | 0.79 | 0.67 | 0.54 | 0.44 | 0.69 | 0.55 | 0.73 | 0.49 | 0.38 | 0.21 | |
| OZONE | 4th Max. 8-hr | DOWN | 3 | 0.08 | 0.07 | 0.06 | 0.06 | 0.06 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | |
| | 2nd Daily Max. 1-hr | DOWN | 3 | 0.09 | 0.08 | 0.07 | 0.08 | 0.08 | 0.06 | 0.07 | 0.08 | 0.07 | 0.07 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 7 | 42 | 42 | 37 | 36 | 36 | 31 | 33 | 30 | 33 | 33 | |
| | 99th Percentile | DOWN | 7 | 112 | 110 | 113 | 86 | 107 | 88 | 90 | 91 | 85 | 90 | |
| ORANGE COUNTY, CA | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 8.8 | 9.0 | 8.3 | 7.0 | 7.5 | 5.8 | 7.3 | 5.7 | 5.8 | 4.8 | |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.09 | 0.08 | 0.06 | 0.06 | 0.03 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | |
| NO ₂ | Arithmetic Mean | DOWN | 3 | 0.038 | 0.038 | 0.039 | 0.038 | 0.034 | 0.032 | 0.034 | 0.033 | 0.029 | 0.028 | |
| OZONE | 4th Max. 8-hr | DOWN | 3 | 0.12 | 0.13 | 0.11 | 0.10 | 0.11 | 0.10 | 0.11 | 0.09 | 0.09 | 0.08 | |
| | 2nd Daily Max. 1-hr | DOWN | 3 | 0.22 | 0.23 | 0.19 | 0.19 | 0.18 | 0.16 | 0.17 | 0.13 | 0.13 | 0.11 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 45 | 45 | 45 | 41 | 37 | 36 | 36 | 41 | 33 | 37 | |
| | 99th Percentile | NS | 2 | 123 | 123 | 123 | 120 | 86 | 104 | 99 | 147 | 90 | 89 | |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 | |
| | 2nd Max. 24-hr | DOWN | 2 | 0.011 | 0.009 | 0.007 | 0.010 | 0.008 | 0.007 | 0.006 | 0.005 | 0.004 | 0.005 | |
| ORLANDO, FL | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 4.5 | 4.3 | 4.5 | 3.6 | 3.9 | 3.8 | 3.6 | 3.3 | 3.3 | 3.6 | |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.05 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.013 | 0.013 | 0.012 | 0.012 | 0.011 | 0.012 | 0.011 | 0.010 | 0.013 | 0.013 | |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.08 | 0.09 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.10 | 0.11 | 0.11 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 28 | 27 | 27 | 27 | 24 | 24 | 23 | 22 | 23 | 23 | |
| | 99th Percentile | NS | 3 | 56 | 53 | 48 | 54 | 57 | 99 | 91 | 38 | 77 | 47 | |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | |
| | 2nd Max. 24-hr | NS | 1 | 0.010 | 0.006 | 0.011 | 0.007 | 0.007 | 0.011 | 0.012 | 0.006 | 0.008 | 0.006 | |
| OWENSBORO, KY | | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 6.4 | 5.9 | 5.4 | 3.8 | 4.5 | 5.5 | 3.9 | 4.2 | 4.2 | 4.2 | |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.015 | 0.014 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.013 | 0.011 | 0.012 | |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|------------------------------------|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OZONE | 4th Max. 8-hr | NS | 1 | 0.11 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.14 | 0.10 | 0.11 | 0.09 | 0.09 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 33 | 33 | 29 | 29 | 27 | 25 | 30 | 29 | 24 | 26 |
| | 99th Percentile | NS | 1 | 82 | 82 | 71 | 62 | 52 | 61 | 106 | 77 | 61 | 56 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.010 | 0.010 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.007 | 0.007 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.040 | 0.053 | 0.038 | 0.044 | 0.053 | 0.050 | 0.035 | 0.028 | 0.020 | 0.027 |
| PARKERSBURG-MARIETTA, WV-OH | | | | | | | | | | | | | |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.04 | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.12 | 0.09 | 0.08 | 0.10 | 0.07 | 0.08 | 0.09 | 0.10 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.15 | 0.12 | 0.11 | 0.12 | 0.10 | 0.10 | 0.11 | 0.12 | 0.11 | 0.11 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.015 | 0.016 | 0.014 | 0.014 | 0.014 | 0.014 | 0.017 | 0.010 | 0.010 | 0.010 |
| | 2nd Max. 24-hr | NS | 1 | 0.076 | 0.076 | 0.064 | 0.060 | 0.059 | 0.065 | 0.084 | 0.041 | 0.046 | 0.052 |
| PENSACOLA, FL | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.09 | 0.11 | 0.10 | 0.10 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.007 | 0.007 | 0.008 | 0.006 | 0.007 | 0.005 | 0.004 | 0.003 | 0.003 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.057 | 0.057 | 0.078 | 0.056 | 0.057 | 0.032 | 0.039 | 0.019 | 0.015 | 0.028 |
| PEORIA-PEKIN, IL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 7.9 | 7.7 | 7.4 | 6.3 | 7.2 | 7.3 | 5.7 | 5.6 | 4.6 | 4.7 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.04 | 0.04 | 0.04 | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.09 | 0.08 | 0.07 | 0.08 | 0.07 | 0.06 | 0.08 | 0.08 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.11 | 0.10 | 0.08 | 0.10 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 23 | 28 | 27 | 24 | 25 | 20 | 21 | 20 | 21 | 26 |
| | 99th Percentile | NS | 1 | 72 | 71 | 72 | 58 | 65 | 42 | 54 | 50 | 52 | 76 |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.009 | 0.007 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 |
| | 2nd Max. 24-hr | NS | 2 | 0.062 | 0.046 | 0.055 | 0.065 | 0.043 | 0.039 | 0.049 | 0.084 | 0.045 | 0.042 |
| PHILADELPHIA, PA-NJ | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 9 | 5.4 | 7.1 | 4.9 | 4.6 | 4.7 | 4.7 | 5.2 | 4.1 | 4.2 | 3.3 |
| LEAD | Max. Quarterly Mean | UP | 10 | 0.50 | 0.38 | 0.54 | 0.35 | 0.56 | 0.86 | 0.54 | 0.69 | 0.92 | 0.77 |
| NO ₂ | Arithmetic Mean | DOWN | 5 | 0.031 | 0.030 | 0.028 | 0.028 | 0.028 | 0.026 | 0.028 | 0.027 | 0.028 | 0.027 |
| OZONE | 4th Max. 8-hr | NS | 8 | 0.13 | 0.10 | 0.10 | 0.11 | 0.09 | 0.10 | 0.09 | 0.11 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 8 | 0.17 | 0.13 | 0.13 | 0.14 | 0.11 | 0.13 | 0.12 | 0.13 | 0.12 | 0.13 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 36 | 35 | 32 | 35 | 29 | 30 | 33 | 30 | 30 | 30 |
| | 99th Percentile | NS | 6 | 83 | 85 | 75 | 87 | 84 | 81 | 81 | 78 | 71 | 99 |
| SO ₂ | Arithmetic Mean | DOWN | 11 | 0.012 | 0.011 | 0.010 | 0.010 | 0.008 | 0.008 | 0.009 | 0.007 | 0.007 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 11 | 0.050 | 0.045 | 0.040 | 0.034 | 0.034 | 0.031 | 0.040 | 0.027 | 0.026 | 0.027 |
| PHOENIX-MESA, AZ | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 8 | 8.0 | 7.8 | 6.7 | 6.2 | 6.5 | 6.0 | 6.3 | 6.2 | 5.7 | 5.1 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.16 | 0.09 | 0.09 | 0.11 | 0.06 | 0.05 | 0.05 | 0.06 | 0.04 | 0.03 |
| OZONE | 4th Max. 8-hr | UP | 8 | 0.08 | 0.07 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 8 | 0.11 | 0.10 | 0.11 | 0.10 | 0.11 | 0.11 | 0.11 | 0.12 | 0.11 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 48 | 51 | 43 | 44 | 43 | 43 | 42 | 43 | 44 | 43 |
| | 99th Percentile | NS | 6 | 108 | 133 | 95 | 99 | 133 | 92 | 94 | 110 | 98 | 91 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.001 | 0.002 | 0.003 | 0.005 | 0.004 | 0.003 | 0.003 | 0.002 | 0.003 | 0.004 |
| | 2nd Max. 24-hr | NS | 1 | 0.001 | 0.006 | 0.011 | 0.013 | 0.010 | 0.009 | 0.009 | 0.008 | 0.017 | 0.010 |
| PINE BLUFF, AR | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 27 | 27 | 21 | 19 | 22 | 23 | 25 | 26 | 23 | 25 |
| | 99th Percentile | NS | 1 | 77 | 77 | 55 | 46 | 66 | 57 | 63 | 73 | 52 | 78 |
| PITTSBURGH, PA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 5 | 5.1 | 5.3 | 5.6 | 4.3 | 4.8 | 3.8 | 4.3 | 3.8 | 3.3 | 2.5 |
| LEAD | Max. Quarterly Mean | DOWN | 4 | 0.13 | 0.12 | 0.09 | 0.09 | 0.07 | 0.07 | 0.08 | 0.06 | 0.04 | 0.05 |
| NO ₂ | Arithmetic Mean | DOWN | 5 | 0.023 | 0.023 | 0.023 | 0.023 | 0.022 | 0.022 | 0.023 | 0.021 | 0.021 | 0.020 |
| OZONE | 4th Max. 8-hr | NS | 8 | 0.10 | 0.09 | 0.08 | 0.09 | 0.07 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 8 | 0.13 | 0.11 | 0.10 | 0.11 | 0.09 | 0.11 | 0.11 | 0.12 | 0.11 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 12 | 35 | 34 | 33 | 33 | 30 | 29 | 33 | 29 | 28 | 29 |
| | 99th Percentile | DOWN | 12 | 106 | 97 | 90 | 84 | 81 | 85 | 92 | 85 | 79 | 70 |
| SO ₂ | Arithmetic Mean | DOWN | 13 | 0.017 | 0.017 | 0.016 | 0.015 | 0.014 | 0.014 | 0.015 | 0.011 | 0.010 | 0.011 |
| | 2nd Max. 24-hr | DOWN | 13 | 0.075 | 0.072 | 0.070 | 0.055 | 0.068 | 0.060 | 0.071 | 0.045 | 0.042 | 0.045 |
| PITTSFIELD, MA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 | 0.07 | 0.07 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.09 | 0.09 | 0.11 | 0.10 | 0.11 | 0.11 | 0.09 | 0.09 | 0.11 | 0.09 |
| PONCE, PR | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 46 | 46 | 38 | 30 | 29 | 30 | 27 | 24 | 24 | 29 |
| | 99th Percentile | NS | 1 | 119 | 119 | 91 | 63 | 79 | 78 | 89 | 64 | 55 | 91 |
| PORTLAND-VANCOUVER, OR-WA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 8.9 | 8.2 | 8.5 | 9.1 | 7.0 | 6.3 | 7.0 | 5.7 | 6.1 | 5.4 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.12 | 0.07 | 0.06 | 0.06 | 0.05 | 0.06 | 0.04 | 0.03 | 0.02 | 0.04 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.07 | 0.06 | 0.08 | 0.06 | 0.07 | 0.06 | 0.06 | 0.07 | 0.09 | 0.06 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.11 | 0.09 | 0.12 | 0.09 | 0.10 | 0.09 | 0.09 | 0.10 | 0.12 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 28 | 25 | 25 | 26 | 23 | 25 | 23 | 20 | 20 | 21 |
| | 99th Percentile | DOWN | 6 | 76 | 76 | 77 | 133 | 63 | 73 | 56 | 48 | 54 | 46 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | |
|---|----------------------|--------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PORTLAND, ME | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.12 | 0.10 | 0.09 | 0.11 | 0.10 | 0.09 | 0.09 | 0.10 | 0.08 | 0.10 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.17 | 0.13 | 0.13 | 0.14 | 0.12 | 0.11 | 0.12 | 0.12 | 0.10 | 0.13 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 24 | 26 | 23 | 25 | 23 | 21 | 21 | 21 | 20 | 23 |
| | 99th Percentile | NS | 1 | 64 | 57 | 49 | 54 | 60 | 64 | 59 | 69 | 42 | 60 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.010 | 0.010 | 0.010 | 0.009 | 0.008 | 0.009 | 0.008 | 0.006 | 0.005 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.044 | 0.039 | 0.034 | 0.032 | 0.029 | 0.032 | 0.043 | 0.022 | 0.021 | 0.023 |
| PORTSMOUTH-ROCHESTER, NH-ME | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.11 | 0.09 | 0.08 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.17 | 0.12 | 0.11 | 0.14 | 0.11 | 0.11 | 0.11 | 0.12 | 0.10 | 0.13 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 21 | 21 | 20 | 19 | 19 | 18 | 14 | 15 | 16 | 17 |
| | 99th Percentile | NS | 2 | 57 | 66 | 46 | 56 | 90 | 56 | 48 | 51 | 45 | 48 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.006 | 0.008 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.004 | 0.004 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.034 | 0.029 | 0.025 | 0.021 | 0.027 | 0.019 | 0.022 | 0.017 | 0.015 | 0.018 |
| PROVIDENCE-FALL RIVER-WARWICK, RI-MA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 7.3 | 6.2 | 7.3 | 7.4 | 6.3 | 5.4 | 6.7 | 7.0 | 4.4 | 5.6 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.024 | 0.024 | 0.024 | 0.025 | 0.023 | 0.022 | 0.022 | 0.022 | 0.025 | 0.025 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.12 | 0.09 | 0.09 | 0.10 | 0.08 | 0.09 | 0.09 | 0.10 | 0.07 | 0.09 |
| | 2nd Daily Max. 1-hr | DOWN | 2 | 0.15 | 0.12 | 0.13 | 0.14 | 0.11 | 0.11 | 0.12 | 0.13 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 31 | 31 | 29 | 30 | 24 | 26 | 29 | 24 | 27 | 25 |
| | 99th Percentile | NS | 3 | 71 | 65 | 82 | 81 | 72 | 67 | 65 | 72 | 71 | 61 |
| SO ₂ | Arithmetic Mean | DOWN | 5 | 0.011 | 0.010 | 0.009 | 0.008 | 0.009 | 0.008 | 0.007 | 0.005 | 0.006 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 5 | 0.050 | 0.043 | 0.039 | 0.039 | 0.044 | 0.036 | 0.035 | 0.022 | 0.030 | 0.030 |
| PROVO-OREM, UT | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 11.0 | 15.8 | 16.2 | 11.6 | 10.0 | 9.6 | 9.3 | 7.1 | 7.1 | 7.1 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.028 | 0.028 | 0.025 | 0.022 | 0.019 | 0.026 | 0.024 | 0.023 | 0.024 | 0.023 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.11 | 0.11 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.10 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 50 | 49 | 32 | 42 | 37 | 38 | 34 | 29 | 34 | 30 |
| | 99th Percentile | DOWN | 3 | 212 | 194 | 104 | 196 | 169 | 161 | 96 | 86 | 116 | 92 |
| PUEBLO, CO | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 35 | 33 | 26 | 30 | 26 | 26 | 30 | 26 | 26 | 27 |
| | 99th Percentile | NS | 1 | 71 | 84 | 75 | 63 | 61 | 52 | 63 | 100 | 59 | 88 |
| RACINE, WI | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 7.4 | 6.4 | 5.5 | 5.7 | 4.9 | 4.1 | 4.3 | 4.3 | 3.0 | 3.1 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.14 | 0.11 | 0.09 | 0.10 | 0.08 | 0.08 | 0.09 | 0.10 | 0.08 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.18 | 0.14 | 0.11 | 0.14 | 0.10 | 0.10 | 0.11 | 0.11 | 0.13 | 0.12 |
| RALEIGH-DURHAM-CHAPEL HILL, NC | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 10.9 | 10.9 | 8.7 | 8.8 | 7.3 | 7.2 | 6.9 | 6.6 | 5.6 | 6.6 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.10 | 0.08 | 0.08 | 0.08 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.11 | 0.11 | 0.12 | 0.11 | 0.10 | 0.11 | 0.11 | 0.10 | 0.09 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 34 | 29 | 29 | 26 | 24 | 25 | 22 | 23 | 25 | 25 |
| | 99th Percentile | NS | 2 | 79 | 60 | 60 | 52 | 53 | 52 | 48 | 51 | 59 | 64 |
| RAPID CITY, SD | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 2 | 29 | 26 | 27 | 28 | 25 | 23 | 29 | 24 | 23 | 25 |
| | 99th Percentile | DOWN | 2 | 96 | 83 | 100 | 111 | 62 | 87 | 74 | 78 | 69 | 58 |
| READING, PA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 5.2 | 5.0 | 6.4 | 4.6 | 4.6 | 3.8 | 5.4 | 3.9 | 3.4 | 3.0 |
| LEAD | Max. Quarterly Mean | DOWN | 11 | 0.58 | 0.68 | 0.61 | 0.66 | 0.57 | 0.48 | 0.50 | 0.34 | 0.33 | 0.38 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.024 | 0.023 | 0.022 | 0.022 | 0.020 | 0.021 | 0.023 | 0.021 | 0.022 | 0.021 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.12 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.15 | 0.11 | 0.11 | 0.12 | 0.10 | 0.11 | 0.10 | 0.11 | 0.11 | 0.11 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.013 | 0.012 | 0.010 | 0.010 | 0.009 | 0.009 | 0.011 | 0.009 | 0.009 | 0.009 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.053 | 0.048 | 0.038 | 0.034 | 0.033 | 0.033 | 0.040 | 0.033 | 0.036 | 0.030 |
| REDDING, CA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.07 | 0.07 | 0.08 | 0.07 | 0.07 | 0.06 | 0.08 | 0.07 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.08 | 0.09 | 0.09 | 0.08 | 0.08 | 0.07 | 0.09 | 0.09 | 0.08 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 26 | 26 | 25 | 29 | 25 | 20 | 24 | 20 | 19 | 17 |
| | 99th Percentile | DOWN | 1 | 67 | 67 | 61 | 83 | 60 | 61 | 58 | 49 | 35 | 44 |
| RENO, NV | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 5 | 7.1 | 7.3 | 7.0 | 7.5 | 5.9 | 5.0 | 6.0 | 4.4 | 5.2 | 5.0 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.07 | 0.07 | 0.07 | 0.06 |
| | 2nd Daily Max. 1-hr | DOWN | 4 | 0.10 | 0.10 | 0.11 | 0.09 | 0.08 | 0.09 | 0.09 | 0.08 | 0.09 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 44 | 42 | 44 | 36 | 36 | 40 | 36 | 32 | 29 | 32 |
| | 99th Percentile | DOWN | 6 | 135 | 137 | 140 | 125 | 100 | 116 | 94 | 72 | 93 | 82 |
| RICHMOND-PETERSBURG, VA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 4.1 | 4.0 | 4.4 | 3.7 | 2.5 | 3.9 | 3.4 | 2.6 | 2.9 | 3.2 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.026 | 0.025 | 0.023 | 0.024 | 0.023 | 0.024 | 0.024 | 0.022 | 0.022 | 0.021 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.12 | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.08 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.14 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.11 | 0.11 | 0.10 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 28 | 28 | 25 | 26 | 22 | 23 | 21 | 23 | 24 | 22 |
| | 99th Percentile | NS | 3 | 68 | 71 | 72 | 61 | 49 | 64 | 39 | 58 | 67 | 68 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------------------------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SO ₂ Arithmetic Mean | DOWN | 1 | 0.009 | 0.009 | 0.006 | 0.006 | 0.005 | 0.007 | 0.006 | 0.005 | 0.005 | 0.005 |
| 2nd Max. 24-hr | DOWN | 1 | 0.042 | 0.032 | 0.034 | 0.027 | 0.024 | 0.023 | 0.022 | 0.016 | 0.027 | 0.024 |
| RIVERSIDE-SAN BERNARDINO, CA | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | DOWN | 7 | 4.7 | 5.1 | 4.4 | 5.1 | 3.6 | 3.5 | 3.5 | 3.4 | 2.9 | 3.1 |
| LEAD Max. Quarterly Mean | NS | 4 | 0.08 | 0.06 | 0.05 | 0.06 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| NO ₂ Arithmetic Mean | DOWN | 7 | 0.030 | 0.030 | 0.029 | 0.029 | 0.027 | 0.028 | 0.028 | 0.029 | 0.027 | 0.024 |
| OZONE 4th Max. 8-hr | DOWN | 16 | 0.16 | 0.16 | 0.14 | 0.15 | 0.14 | 0.13 | 0.13 | 0.13 | 0.12 | 0.11 |
| 2nd Daily Max. 1-hr | DOWN | 16 | 0.22 | 0.22 | 0.21 | 0.21 | 0.19 | 0.18 | 0.19 | 0.18 | 0.16 | 0.15 |
| PM ₁₀ Weighted Annual Mean | DOWN | 10 | 66 | 69 | 62 | 58 | 50 | 49 | 47 | 47 | 45 | 44 |
| 99th Percentile | DOWN | 10 | 173 | 266 | 261 | 177 | 170 | 127 | 123 | 139 | 120 | 114 |
| SO ₂ Arithmetic Mean | DOWN | 4 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 | 0.001 |
| 2nd Max. 24-hr | DOWN | 4 | 0.012 | 0.013 | 0.006 | 0.008 | 0.009 | 0.006 | 0.004 | 0.005 | 0.004 | 0.004 |
| ROANOKE, VA | | | | | | | | | | | | |
| NO ₂ Arithmetic Mean | DOWN | 1 | 0.016 | 0.014 | 0.013 | 0.014 | 0.013 | 0.014 | 0.013 | 0.013 | 0.013 | 0.013 |
| OZONE 4th Max. 8-hr | NS | 1 | 0.10 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 |
| 2nd Daily Max. 1-hr | NS | 1 | 0.13 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 | 0.10 | 0.09 | 0.08 | 0.10 |
| PM ₁₀ Weighted Annual Mean | DOWN | 2 | 37 | 35 | 36 | 33 | 32 | 35 | 36 | 34 | 33 | 30 |
| 99th Percentile | NS | 2 | 82 | 71 | 72 | 75 | 68 | 79 | 72 | 81 | 84 | 84 |
| SO ₂ Arithmetic Mean | DOWN | 1 | 0.004 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 |
| 2nd Max. 24-hr | DOWN | 1 | 0.018 | 0.022 | 0.018 | 0.019 | 0.016 | 0.018 | 0.011 | 0.010 | 0.014 | 0.013 |
| ROCHESTER, MN | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | DOWN | 1 | 7.1 | 6.3 | 6.1 | 6.3 | 5.1 | 4.9 | 5.0 | 4.0 | 4.0 | 4.0 |
| PM ₁₀ Weighted Annual Mean | DOWN | 1 | 29 | 30 | 28 | 23 | 21 | 20 | 21 | 20 | 19 | 20 |
| 99th Percentile | NS | 1 | 64 | 70 | 102 | 43 | 44 | 45 | 53 | 50 | 59 | 39 |
| ROCHESTER, NY | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | NS | 2 | 4.0 | 3.6 | 3.5 | 3.3 | 3.5 | 3.2 | 4.5 | 3.2 | 3.7 | 1.9 |
| LEAD Max. Quarterly Mean | NS | 1 | 0.09 | 0.04 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| OZONE 4th Max. 8-hr | NS | 2 | 0.11 | 0.09 | 0.09 | 0.10 | 0.08 | 0.08 | 0.08 | 0.09 | 0.07 | 0.09 |
| 2nd Daily Max. 1-hr | NS | 2 | 0.13 | 0.10 | 0.11 | 0.11 | 0.09 | 0.09 | 0.09 | 0.11 | 0.08 | 0.10 |
| PM ₁₀ Weighted Annual Mean | DOWN | 2 | 30 | 24 | 21 | 26 | 22 | 23 | 20 | 21 | 21 | 20 |
| 99th Percentile | NS | 2 | 99 | 65 | 59 | 72 | 60 | 76 | 48 | 49 | 65 | 53 |
| SO ₂ Arithmetic Mean | DOWN | 2 | 0.012 | 0.013 | 0.012 | 0.011 | 0.011 | 0.010 | 0.011 | 0.010 | 0.009 | 0.008 |
| 2nd Max. 24-hr | NS | 2 | 0.038 | 0.054 | 0.040 | 0.043 | 0.039 | 0.041 | 0.043 | 0.038 | 0.033 | 0.038 |
| ROCKFORD, IL | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | DOWN | 1 | 8.1 | 6.6 | 6.5 | 5.1 | 4.6 | 4.3 | 4.0 | 4.5 | 3.2 | 3.7 |
| LEAD Max. Quarterly Mean | DOWN | 1 | 0.13 | 0.07 | 0.09 | 0.04 | 0.06 | 0.03 | 0.04 | 0.03 | 0.05 | 0.03 |
| OZONE 4th Max. 8-hr | NS | 2 | 0.09 | 0.08 | 0.07 | 0.08 | 0.08 | 0.07 | 0.08 | 0.09 | 0.08 | 0.07 |
| 2nd Daily Max. 1-hr | NS | 2 | 0.11 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.10 | 0.10 | 0.09 | 0.08 |
| PM ₁₀ Weighted Annual Mean | NS | 1 | 17 | 25 | 25 | 22 | 21 | 16 | 19 | 19 | 18 | 26 |
| 99th Percentile | NS | 1 | 39 | 62 | 78 | 57 | 49 | 47 | 46 | 59 | 45 | 73 |
| SACRAMENTO, CA | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | DOWN | 6 | 9.5 | 9.0 | 8.9 | 8.2 | 6.2 | 6.4 | 6.2 | 5.2 | 4.9 | 4.5 |
| LEAD Max. Quarterly Mean | DOWN | 2 | 0.08 | 0.07 | 0.10 | 0.04 | 0.02 | 0.05 | 0.02 | 0.02 | 0.01 | 0.01 |
| NO ₂ Arithmetic Mean | DOWN | 5 | 0.018 | 0.018 | 0.018 | 0.016 | 0.016 | 0.017 | 0.014 | 0.015 | 0.015 | 0.013 |
| OZONE 4th Max. 8-hr | NS | 6 | 0.10 | 0.08 | 0.09 | 0.10 | 0.09 | 0.09 | 0.09 | 0.10 | 0.09 | 0.08 |
| 2nd Daily Max. 1-hr | NS | 6 | 0.14 | 0.11 | 0.13 | 0.14 | 0.12 | 0.12 | 0.11 | 0.13 | 0.12 | 0.10 |
| SO ₂ Arithmetic Mean | DOWN | 1 | 0.010 | 0.006 | 0.006 | 0.003 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 2nd Max. 24-hr | DOWN | 1 | 0.020 | 0.020 | 0.010 | 0.010 | 0.010 | 0.003 | 0.004 | 0.004 | 0.003 | 0.003 |
| SALINAS, CA | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | NS | 1 | 2.3 | 2.3 | 2.5 | 2.1 | 2.3 | 2.1 | 2.0 | 1.7 | 2.4 | 1.7 |
| NO ₂ Arithmetic Mean | DOWN | 1 | 0.014 | 0.014 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.011 | 0.011 | 0.010 |
| OZONE 4th Max. 8-hr | DOWN | 2 | 0.06 | 0.07 | 0.06 | 0.06 | 0.06 | 0.07 | 0.06 | 0.06 | 0.06 | 0.05 |
| 2nd Daily Max. 1-hr | DOWN | 2 | 0.08 | 0.10 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.07 | 0.08 | 0.07 |
| PM ₁₀ Weighted Annual Mean | DOWN | 1 | 25 | 25 | 23 | 23 | 23 | 22 | 20 | 21 | 20 | 21 |
| 99th Percentile | NS | 1 | 54 | 54 | 56 | 46 | 66 | 86 | 50 | 50 | 50 | 59 |
| SALT LAKE CITY-OGDEN, UT | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | DOWN | 1 | 7.8 | 7.7 | 6.8 | 7.5 | 6.5 | 6.4 | 5.9 | 4.5 | 6.2 | 5.4 |
| LEAD Max. Quarterly Mean | DOWN | 2 | 0.16 | 0.12 | 0.08 | 0.08 | 0.05 | 0.07 | 0.05 | 0.05 | 0.03 | 0.07 |
| NO ₂ Arithmetic Mean | NS | 1 | 0.026 | 0.027 | 0.019 | 0.020 | 0.022 | 0.025 | 0.026 | 0.024 | 0.026 | 0.024 |
| OZONE 4th Max. 8-hr | NS | 2 | 0.09 | 0.09 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 |
| 2nd Daily Max. 1-hr | NS | 2 | 0.14 | 0.14 | 0.11 | 0.11 | 0.10 | 0.10 | 0.11 | 0.12 | 0.11 | 0.10 |
| PM ₁₀ Weighted Annual Mean | DOWN | 6 | 43 | 45 | 33 | 41 | 36 | 37 | 32 | 29 | 33 | 29 |
| 99th Percentile | DOWN | 6 | 132 | 129 | 99 | 152 | 131 | 115 | 105 | 79 | 119 | 85 |
| SO ₂ Arithmetic Mean | DOWN | 3 | 0.011 | 0.011 | 0.009 | 0.010 | 0.009 | 0.007 | 0.004 | 0.003 | 0.003 | 0.003 |
| 2nd Max. 24-hr | DOWN | 3 | 0.054 | 0.081 | 0.039 | 0.051 | 0.046 | 0.043 | 0.013 | 0.013 | 0.014 | 0.008 |
| SAN ANTONIO, TX | | | | | | | | | | | | |
| CO 2nd Max. 8-hr | NS | 2 | 5.7 | 6.3 | 5.4 | 4.6 | 4.7 | 5.1 | 3.5 | 3.8 | 4.8 | 4.7 |
| LEAD Max. Quarterly Mean | DOWN | 1 | 0.06 | 0.04 | 0.07 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 |
| OZONE 4th Max. 8-hr | NS | 2 | 0.09 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.09 | 0.09 | 0.08 | 0.08 |
| 2nd Daily Max. 1-hr | NS | 2 | 0.12 | 0.11 | 0.10 | 0.11 | 0.10 | 0.11 | 0.11 | 0.12 | 0.12 | 0.10 |
| PM ₁₀ Weighted Annual Mean | DOWN | 3 | 28 | 28 | 25 | 25 | 25 | 23 | 23 | 21 | 19 | 19 |
| 99th Percentile | DOWN | 3 | 76 | 80 | 53 | 81 | 68 | 57 | 51 | 75 | 39 | 46 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | |
|---|----------------------|--------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAN DIEGO, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 7 | 6.1 | 6.6 | 5.8 | 5.4 | 5.0 | 4.5 | 4.8 | 4.2 | 4.2 | 3.8 |
| LEAD | Max. Quarterly Mean | DOWN | 3 | 0.10 | 0.08 | 0.09 | 0.04 | 0.03 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 |
| NO2 | Arithmetic Mean | DOWN | 7 | 0.028 | 0.027 | 0.025 | 0.025 | 0.024 | 0.020 | 0.021 | 0.021 | 0.019 | 0.019 |
| OZONE | 4th Max. 8-hr | DOWN | 8 | 0.11 | 0.11 | 0.11 | 0.10 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | DOWN | 8 | 0.17 | 0.16 | 0.16 | 0.15 | 0.14 | 0.13 | 0.11 | 0.12 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 36 | 39 | 34 | 37 | 32 | 30 | 31 | 32 | 28 | 27 |
| | 99th Percentile | NS | 3 | 71 | 83 | 85 | 76 | 56 | 68 | 70 | 88 | 64 | 61 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.005 | 0.005 | 0.004 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.003 |
| | 2nd Max. 24-hr | NS | 2 | 0.014 | 0.016 | 0.015 | 0.018 | 0.019 | 0.010 | 0.014 | 0.012 | 0.014 | 0.013 |
| SAN FRANCISCO, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 6.3 | 5.9 | 5.7 | 6.2 | 4.8 | 4.6 | 4.3 | 3.7 | 3.9 | 3.4 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.10 | 0.08 | 0.04 | 0.04 | 0.02 | 0.03 | 0.02 | 0.03 | 0.01 | 0.02 |
| NO2 | Arithmetic Mean | DOWN | 1 | 0.026 | 0.026 | 0.021 | 0.024 | 0.022 | 0.024 | 0.022 | 0.021 | 0.022 | 0.020 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.06 | 0.06 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.05 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.09 | 0.08 | 0.06 | 0.06 | 0.06 | 0.08 | 0.07 | 0.09 | 0.08 | 0.07 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 33 | 33 | 28 | 32 | 29 | 27 | 25 | 21 | 21 | 24 |
| | 99th Percentile | DOWN | 1 | 90 | 90 | 137 | 90 | 80 | 76 | 76 | 48 | 48 | 70 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.002 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.001 | 0.002 | 0.002 | 0.002 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.012 | 0.015 | 0.010 | 0.013 | 0.012 | 0.010 | 0.005 | 0.005 | 0.007 | 0.006 |
| SAN JOSE, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 10.4 | 11.9 | 10.8 | 10.2 | 7.3 | 6.4 | 7.4 | 5.6 | 5.7 | 5.4 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.12 | 0.12 | 0.08 | 0.04 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.09 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.06 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.12 | 0.11 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 38 | 39 | 36 | 34 | 30 | 26 | 26 | 22 | 21 | 22 |
| | 99th Percentile | DOWN | 4 | 129 | 140 | 147 | 115 | 102 | 83 | 82 | 54 | 64 | 76 |
| SAN JUAN-BAYAMON, PR | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 5.4 | 5.5 | 5.3 | 5.3 | 5.3 | 4.5 | 4.8 | 4.9 | 4.0 | 3.9 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 33 | 34 | 35 | 30 | 28 | 32 | 30 | 26 | 27 | 32 |
| | 99th Percentile | NS | 6 | 87 | 87 | 84 | 77 | 72 | 81 | 77 | 63 | 64 | 94 |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.007 | 0.007 | 0.007 | 0.010 | 0.009 | 0.008 | 0.008 | 0.006 | 0.005 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.055 | 0.051 | 0.056 | 0.062 | 0.068 | 0.038 | 0.048 | 0.039 | 0.021 | 0.017 |
| SAN LUIS OBISPO-ATASCADERO-PASO ROBLES, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 4.0 | 4.7 | 3.9 | 3.3 | 3.0 | 3.1 | 3.1 | 2.4 | 2.3 | 2.3 |
| NO2 | Arithmetic Mean | DOWN | 2 | 0.012 | 0.013 | 0.012 | 0.012 | 0.011 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 |
| OZONE | 4th Max. 8-hr | DOWN | 5 | 0.08 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.06 |
| | 2nd Daily Max. 1-hr | DOWN | 5 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 27 | 27 | 24 | 26 | 22 | 23 | 21 | 21 | 18 | 20 |
| | 99th Percentile | NS | 2 | 59 | 59 | 61 | 57 | 40 | 68 | 61 | 52 | 42 | 63 |
| SO ₂ | Arithmetic Mean | NS | 3 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.001 |
| | 2nd Max. 24-hr | DOWN | 3 | 0.006 | 0.006 | 0.005 | 0.006 | 0.005 | 0.003 | 0.005 | 0.004 | 0.004 | 0.004 |
| SANTA BARBARA-SANTA MARIA-LOMPOC, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 2.6 | 2.8 | 2.4 | 2.3 | 2.3 | 2.2 | 2.5 | 2.1 | 1.9 | 1.6 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.05 | 0.05 | 0.03 | 0.03 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 |
| NO2 | Arithmetic Mean | DOWN | 19 | 0.008 | 0.008 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| OZONE | 4th Max. 8-hr | DOWN | 20 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.07 | 0.07 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 20 | 0.11 | 0.15 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.10 | 0.10 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | NS | 14 | 26 | 25 | 23 | 22 | 22 | 24 | 23 | 23 | 22 | 23 |
| | 99th Percentile | NS | 14 | 63 | 65 | 57 | 53 | 52 | 59 | 68 | 56 | 52 | 49 |
| SO ₂ | Arithmetic Mean | NS | 12 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| | 2nd Max. 24-hr | NS | 12 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.002 |
| SANTA CRUZ-WATSONVILLE, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 0.8 | 0.7 | 0.7 |
| NO2 | Arithmetic Mean | DOWN | 1 | 0.008 | 0.009 | 0.008 | 0.010 | 0.007 | 0.006 | 0.006 | 0.005 | 0.005 | 0.004 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.06 | 0.06 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.08 | 0.08 | 0.08 | 0.09 | 0.07 | 0.08 | 0.07 | 0.07 | 0.08 | 0.07 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 30 | 31 | 24 | 24 | 23 | 22 | 22 | 19 | 19 | 19 |
| | 99th Percentile | NS | 1 | 65 | 51 | 49 | 49 | 55 | 61 | 45 | 36 | 55 | 55 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.001 | 0.002 | 0.001 |
| | 2nd Max. 24-hr | NS | 1 | 0.007 | 0.004 | 0.003 | 0.002 | 0.006 | 0.006 | 0.006 | 0.008 | 0.003 | 0.002 |
| SANTA FE, NM | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 3.8 | 3.5 | 3.5 | 3.9 | 3.7 | 3.4 | 2.7 | 2.3 | 2.2 | 2.1 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 17 | 16 | 17 | 14 | 16 | 15 | 14 | 13 | 14 | 14 |
| | 99th Percentile | DOWN | 2 | 58 | 45 | 48 | 32 | 37 | 35 | 30 | 33 | 32 | 31 |
| SANTA ROSA, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 4.9 | 5.0 | 4.3 | 3.8 | 3.5 | 3.8 | 3.2 | 2.4 | 3.0 | 3.1 |
| NO2 | Arithmetic Mean | DOWN | 1 | 0.016 | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 | 0.015 | 0.015 | 0.014 | 0.013 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.07 | 0.06 | 0.06 | 0.07 | 0.06 | 0.06 | 0.06 | 0.05 | 0.06 | 0.06 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 23 | 23 | 20 | 23 | 18 | 19 | 18 | 16 | 16 | 15 |
| | 99th Percentile | DOWN | 3 | 58 | 58 | 58 | 74 | 51 | 48 | 45 | 40 | 36 | 53 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SARASOTA-BRADENTON, FL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 6.3 | 6.3 | 6.2 | 6.9 | 5.6 | 6.5 | 5.3 | 5.9 | 5.1 | 5.3 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.07 | 0.07 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 |
| | 2nd Daily Max. 1-hr | DOWN | 3 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.10 | 0.10 | 0.09 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | NS | 2 | 24 | 24 | 24 | 24 | 26 | 25 | 22 | 20 | 19 | 21 |
| | 99th Percentile | NS | 2 | 48 | 48 | 48 | 69 | 103 | 104 | 87 | 51 | 75 | 50 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 |
| | 2nd Max. 24-hr | NS | 1 | 0.012 | 0.017 | 0.016 | 0.035 | 0.021 | 0.018 | 0.017 | 0.010 | 0.018 | 0.009 |
| SAVANNAH, GA | | | | | | | | | | | | | |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.007 | 0.003 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.004 | 0.004 | 0.003 |
| | 2nd Max. 24-hr | NS | 1 | 0.046 | 0.013 | 0.008 | 0.009 | 0.008 | 0.011 | 0.015 | 0.013 | 0.019 | 0.013 |
| SCRANTON—WILKES-BARRE—HAZLETON, PA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 4.8 | 4.1 | 4.5 | 4.2 | 3.8 | 2.9 | 3.6 | 2.8 | 3.8 | 3.1 |
| NO ₂ | Arithmetic Mean | DOWN | 2 | 0.018 | 0.019 | 0.018 | 0.017 | 0.016 | 0.018 | 0.018 | 0.016 | 0.018 | 0.016 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.11 | 0.08 | 0.09 | 0.10 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.13 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 29 | 29 | 25 | 29 | 25 | 26 | 28 | 25 | 24 | 26 |
| | 99th Percentile | NS | 3 | 75 | 75 | 65 | 73 | 49 | 73 | 64 | 69 | 57 | 79 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.010 | 0.009 | 0.010 | 0.009 | 0.008 | 0.007 | 0.007 | 0.005 | 0.006 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.051 | 0.047 | 0.049 | 0.039 | 0.033 | 0.026 | 0.035 | 0.036 | 0.028 | 0.029 |
| SEATTLE-BELLEVUE-EVERETT, WA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 5 | 9.1 | 8.5 | 7.3 | 7.4 | 7.5 | 5.6 | 5.4 | 5.4 | 5.0 | 5.4 |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.84 | 0.31 | 0.64 | 0.56 | 0.40 | 0.37 | 0.61 | 0.51 | 0.66 | 0.87 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.08 | 0.09 | 0.07 | 0.08 | 0.07 | 0.06 | 0.07 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 2 | 0.12 | 0.11 | 0.13 | 0.10 | 0.10 | 0.10 | 0.12 | 0.09 | 0.11 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 7 | 31 | 32 | 29 | 30 | 29 | 28 | 23 | 22 | 20 | 22 |
| | 99th Percentile | DOWN | 7 | 93 | 96 | 87 | 94 | 75 | 79 | 59 | 65 | 61 | 76 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.006 | 0.005 | 0.004 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.024 | 0.021 | 0.023 | 0.023 | 0.020 | 0.020 | 0.022 | 0.017 | 0.017 | 0.011 |
| SHARON, PA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | DOWN | 2 | 0.12 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.14 | 0.10 | 0.10 | 0.11 | 0.10 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 37 | 35 | 30 | 36 | 27 | 28 | 30 | 28 | 29 | 28 |
| | 99th Percentile | NS | 1 | 84 | 88 | 85 | 76 | 61 | 66 | 82 | 74 | 101 | 60 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.011 | 0.011 | 0.010 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.054 | 0.043 | 0.036 | 0.032 | 0.030 | 0.029 | 0.047 | 0.032 | 0.029 | 0.032 |
| SHREVEPORT-BOSSIER CITY, LA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.11 | 0.12 | 0.11 | 0.10 | 0.10 | 0.11 | 0.09 | 0.10 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 23 | 23 | 23 | 28 | 24 | 22 | 24 | 24 | 22 | 23 |
| | 99th Percentile | NS | 1 | 47 | 47 | 47 | 130 | 106 | 68 | 51 | 56 | 46 | 99 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.003 | 0.004 | 0.002 | 0.002 | 0.004 | 0.004 | 0.002 | 0.001 | 0.002 | 0.002 |
| | 2nd Max. 24-hr | NS | 1 | 0.009 | 0.023 | 0.006 | 0.009 | 0.013 | 0.011 | 0.008 | 0.004 | 0.004 | 0.007 |
| SIOUX CITY, IA-NE | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 31 | 28 | 28 | 28 | 25 | 23 | 23 | 26 | 33 | 28 |
| | 99th Percentile | NS | 1 | 98 | 83 | 74 | 70 | 93 | 58 | 71 | 73 | 107 | 102 |
| SIOUX FALLS, SD | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 22 | 22 | 20 | 19 | 19 | 15 | 22 | 20 | 19 | 19 |
| | 99th Percentile | NS | 1 | 52 | 114 | 87 | 52 | 45 | 48 | 47 | 51 | 70 | 50 |
| SOUTH BEND, IN | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.10 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.12 | 0.08 | 0.09 | 0.10 | 0.10 | 0.09 | 0.10 | 0.11 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 29 | 30 | 31 | 30 | 23 | 24 | 27 | 22 | 20 | 17 |
| | 99th Percentile | DOWN | 2 | 79 | 72 | 90 | 68 | 70 | 65 | 95 | 55 | 55 | 45 |
| SPOKANE, WA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 3 | 9.9 | 9.4 | 9.1 | 9.3 | 8.1 | 8.0 | 6.4 | 6.9 | 6.8 | 5.1 |
| OZONE | 4th Max. 8-hr | UP | 1 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.07 | 0.09 | 0.08 | 0.08 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 50 | 46 | 45 | 40 | 40 | 40 | 37 | 31 | 32 | 28 |
| | 99th Percentile | DOWN | 4 | 263 | 332 | 202 | 102 | 142 | 131 | 88 | 86 | 94 | 62 |
| SPRINGFIELD, IL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 4.8 | 4.4 | 4.4 | 4.3 | 4.5 | 3.9 | 3.1 | 3.2 | 3.0 | 2.1 |
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.10 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.11 | 0.11 | 0.10 | 0.10 | 0.09 | 0.11 | 0.10 | 0.10 | 0.10 | 0.09 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.007 | 0.007 | 0.007 | 0.008 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| | 2nd Max. 24-hr | NS | 1 | 0.074 | 0.047 | 0.054 | 0.048 | 0.043 | 0.040 | 0.050 | 0.062 | 0.061 | 0.043 |
| SPRINGFIELD, MA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 2 | 7.3 | 7.3 | 6.7 | 6.3 | 7.1 | 6.1 | 7.5 | 7.9 | 7.1 | 5.1 |
| NO ₂ | Arithmetic Mean | DOWN | 2 | 0.019 | 0.018 | 0.018 | 0.017 | 0.016 | 0.016 | 0.019 | 0.015 | 0.016 | 0.015 |
| OZONE | 4th Max. 8-hr | NS | 4 | 0.13 | 0.09 | 0.09 | 0.10 | 0.09 | 0.10 | 0.09 | 0.09 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 4 | 0.16 | 0.12 | 0.12 | 0.13 | 0.12 | 0.13 | 0.12 | 0.12 | 0.10 | 0.12 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 27 | 25 | 22 | 22 | 20 | 20 | 23 | 19 | 20 | 20 |
| | 99th Percentile | NS | 4 | 64 | 59 | 65 | 67 | 59 | 54 | 75 | 49 | 58 | 52 |
| SO ₂ | Arithmetic Mean | DOWN | 3 | 0.010 | 0.009 | 0.008 | 0.008 | 0.007 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 3 | 0.049 | 0.040 | 0.033 | 0.031 | 0.034 | 0.023 | 0.048 | 0.023 | 0.024 | 0.021 |
| SPRINGFIELD, MO | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 6.9 | 6.7 | 7.2 | 6.9 | 6.2 | 5.3 | 5.9 | 4.1 | 3.3 | 4.6 |
| NO ₂ | Arithmetic Mean | UP | 1 | 0.010 | 0.010 | 0.008 | 0.008 | 0.010 | 0.011 | 0.013 | 0.012 | 0.011 | 0.011 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.07 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.09 | 0.07 | 0.08 | 0.07 | 0.08 | 0.08 | 0.09 | 0.10 | 0.09 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 22 | 22 | 22 | 18 | 19 | 17 | 17 | 17 | 18 | 16 |
| | 99th Percentile | NS | 3 | 55 | 50 | 52 | 35 | 53 | 40 | 55 | 45 | 61 | 51 |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.006 | 0.006 | 0.006 | 0.003 | 0.004 | 0.006 | 0.008 | 0.003 | 0.005 | 0.002 |
| | 2nd Max. 24-hr | NS | 2 | 0.057 | 0.052 | 0.057 | 0.033 | 0.034 | 0.040 | 0.067 | 0.021 | 0.043 | 0.022 |
| ST. JOSEPH, MO | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 46 | 45 | 40 | 44 | 39 | 32 | 34 | 33 | 32 | 31 |
| | 99th Percentile | NS | 1 | 112 | 98 | 95 | 103 | 88 | 100 | 77 | 101 | 96 | 88 |
| ST. LOUIS, MO-IL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 7 | 4.6 | 4.8 | 4.0 | 4.1 | 3.3 | 3.3 | 3.5 | 3.3 | 3.3 | 3.2 |
| LEAD | Max. Quarterly Mean | DOWN | 12 | 1.99 | 0.81 | 0.71 | 0.62 | 0.64 | 0.50 | 0.56 | 0.57 | 0.61 | 0.46 |
| NO ₂ | Arithmetic Mean | NS | 8 | 0.020 | 0.019 | 0.018 | 0.018 | 0.019 | 0.018 | 0.019 | 0.019 | 0.018 | 0.018 |
| OZONE | 4th Max. 8-hr | NS | 17 | 0.10 | 0.08 | 0.08 | 0.09 | 0.08 | 0.07 | 0.09 | 0.09 | 0.09 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 17 | 0.13 | 0.11 | 0.11 | 0.11 | 0.10 | 0.11 | 0.12 | 0.12 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 14 | 37 | 37 | 34 | 32 | 33 | 29 | 31 | 31 | 28 | 28 |
| | 99th Percentile | DOWN | 14 | 89 | 89 | 85 | 75 | 79 | 70 | 87 | 72 | 68 | 67 |
| SO ₂ | Arithmetic Mean | DOWN | 15 | 0.012 | 0.012 | 0.011 | 0.010 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 15 | 0.054 | 0.056 | 0.042 | 0.042 | 0.039 | 0.041 | 0.041 | 0.037 | 0.039 | 0.034 |
| STAMFORD-NORWALK, CT | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 6.9 | 6.0 | 6.3 | 6.0 | 5.5 | 5.2 | 6.2 | 5.4 | 4.1 | 5.1 |
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.14 | 0.11 | 0.11 | 0.11 | 0.08 | 0.10 | 0.11 | 0.10 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.22 | 0.16 | 0.14 | 0.15 | 0.11 | 0.15 | 0.16 | 0.14 | 0.12 | 0.14 |
| PM ₁₀ | Weighted Annual Mean | NS | 3 | 31 | 29 | 30 | 32 | 24 | 23 | 28 | 25 | 25 | 26 |
| | 99th Percentile | NS | 3 | 68 | 66 | 75 | 73 | 61 | 61 | 73 | 76 | 62 | 73 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.006 | 0.006 | 0.005 | 0.006 | 0.005 | 0.005 | 0.006 | 0.004 | 0.005 | 0.004 |
| | 2nd Max. 24-hr | NS | 1 | 0.031 | 0.029 | 0.024 | 0.025 | 0.022 | 0.020 | 0.028 | 0.023 | 0.019 | 0.025 |
| STATE COLLEGE, PA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.12 | 0.08 | 0.10 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.14 | 0.10 | 0.11 | 0.12 | 0.10 | 0.12 | 0.10 | 0.11 | 0.09 | 0.09 |
| STEUBENVILLE-WEIRTON, OH-WV | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 19.6 | 13.3 | 20.5 | 13.9 | 6.9 | 6.6 | 8.2 | 5.7 | 5.3 | 2.2 |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.05 | 0.09 | 0.08 | 0.07 | 0.14 | 0.07 | 0.07 | 0.06 | 0.04 | 0.04 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.021 | 0.023 | 0.020 | 0.021 | 0.019 | 0.017 | 0.020 | 0.020 | 0.020 | 0.017 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.10 | 0.08 | 0.07 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.12 | 0.10 | 0.09 | 0.11 | 0.09 | 0.10 | 0.10 | 0.11 | 0.10 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 41 | 42 | 37 | 40 | 36 | 34 | 35 | 34 | 32 | 27 |
| | 99th Percentile | DOWN | 6 | 110 | 126 | 94 | 108 | 100 | 97 | 98 | 97 | 98 | 67 |
| SO ₂ | Arithmetic Mean | DOWN | 6 | 0.026 | 0.026 | 0.025 | 0.024 | 0.019 | 0.019 | 0.018 | 0.011 | 0.011 | 0.011 |
| | 2nd Max. 24-hr | DOWN | 6 | 0.091 | 0.094 | 0.089 | 0.083 | 0.079 | 0.086 | 0.092 | 0.050 | 0.050 | 0.051 |
| STOCKTON-LODI, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 9.4 | 9.0 | 10.9 | 9.7 | 5.9 | 5.8 | 7.0 | 4.8 | 6.0 | 3.7 |
| LEAD | Max. Quarterly Mean | DOWN | 1 | 0.07 | 0.05 | 0.04 | 0.04 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.026 | 0.026 | 0.026 | 0.025 | 0.024 | 0.024 | 0.024 | 0.022 | 0.023 | 0.022 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.10 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 | 0.09 | 0.09 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.12 | 0.11 | 0.12 | 0.11 | 0.11 | 0.11 | 0.12 | 0.13 | 0.10 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 42 | 46 | 45 | 49 | 39 | 36 | 35 | 31 | 26 | 29 |
| | 99th Percentile | NS | 2 | 109 | 124 | 181 | 133 | 110 | 101 | 105 | 108 | 113 | 95 |
| SYRACUSE, NY | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 7.8 | 9.7 | 6.8 | 8.4 | 7.5 | 5.6 | 6.5 | 3.3 | 3.9 | 4.0 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 32 | 32 | 27 | 29 | 27 | 24 | 24 | 23 | 23 | 23 |
| | 99th Percentile | DOWN | 3 | 77 | 77 | 69 | 82 | 64 | 75 | 69 | 55 | 61 | 55 |
| TACOMA, WA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 11.6 | 10.3 | 8.0 | 8.7 | 8.9 | 5.9 | 6.0 | 6.3 | 6.3 | 6.8 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.08 | 0.07 | 0.09 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.11 | 0.09 | 0.13 | 0.09 | 0.10 | 0.10 | 0.11 | 0.09 | 0.10 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 34 | 36 | 31 | 32 | 34 | 29 | 24 | 24 | 22 | 24 |
| | 99th Percentile | DOWN | 3 | 119 | 109 | 84 | 89 | 97 | 80 | 74 | 66 | 60 | 78 |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.007 | 0.006 | 0.006 | 0.006 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.029 | 0.027 | 0.026 | 0.023 | 0.030 | 0.025 | 0.021 | 0.020 | 0.024 | 0.023 |
| TAMPA-ST. PETERSBURG-CLEARWATER, FL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 6 | 4.4 | 3.7 | 3.8 | 2.9 | 2.9 | 2.6 | 2.2 | 2.8 | 2.5 | 2.4 |
| LEAD | Max. Quarterly Mean | DOWN | 2 | 0.03 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NO ₂ | Arithmetic Mean | DOWN | 2 | 0.013 | 0.013 | 0.013 | 0.012 | 0.011 | 0.011 | 0.010 | 0.011 | 0.011 | 0.011 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|------------------------------------|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OZONE | 4th Max. 8-hr | NS | 6 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.07 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 6 | 0.11 | 0.10 | 0.11 | 0.10 | 0.10 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 3 | 29 | 29 | 28 | 29 | 26 | 27 | 26 | 25 | 25 | 25 |
| | 99th Percentile | NS | 3 | 61 | 60 | 52 | 54 | 62 | 105 | 93 | 56 | 79 | 65 |
| SO ₂ | Arithmetic Mean | DOWN | 7 | 0.006 | 0.007 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 7 | 0.027 | 0.028 | 0.027 | 0.025 | 0.024 | 0.024 | 0.027 | 0.022 | 0.022 | 0.023 |
| TERRE HAUTE, IN | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.07 | 0.09 | 0.09 | 0.09 | 0.07 | 0.07 | 0.09 | 0.09 | 0.10 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.08 | 0.11 | 0.11 | 0.10 | 0.08 | 0.09 | 0.11 | 0.10 | 0.11 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 5 | 34 | 33 | 33 | 30 | 26 | 25 | 25 | 27 | 22 | 23 |
| | 99th Percentile | DOWN | 5 | 108 | 92 | 98 | 77 | 66 | 67 | 67 | 67 | 51 | 57 |
| SO ₂ | Arithmetic Mean | NS | 2 | 0.008 | 0.009 | 0.011 | 0.011 | 0.007 | 0.009 | 0.010 | 0.007 | 0.009 | 0.006 |
| | 2nd Max. 24-hr | NS | 2 | 0.035 | 0.043 | 0.038 | 0.037 | 0.033 | 0.039 | 0.039 | 0.029 | 0.033 | 0.023 |
| TEXARKANA, TX-TEXARKANA, AR | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 26 | 26 | 24 | 22 | 23 | 22 | 23 | 26 | 23 | 22 |
| | 99th Percentile | NS | 1 | 55 | 55 | 49 | 48 | 84 | 63 | 54 | 57 | 51 | 78 |
| TOLEDO, OH | | | | | | | | | | | | | |
| LEAD | Max. Quarterly Mean | NS | 1 | 0.54 | 0.48 | 0.79 | 0.48 | 0.57 | 0.63 | 0.70 | 0.43 | 0.44 | 0.42 |
| | OZONE | NS | 2 | 0.11 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 |
| PM ₁₀ | 2nd Daily Max. 1-hr | NS | 2 | 0.13 | 0.10 | 0.10 | 0.11 | 0.09 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 |
| | Weighted Annual Mean | DOWN | 1 | 36 | 36 | 26 | 29 | 28 | 25 | 26 | 25 | 22 | 22 |
| SO ₂ | 99th Percentile | DOWN | 1 | 64 | 64 | 66 | 76 | 62 | 74 | 60 | 58 | 43 | 43 |
| | Arithmetic Mean | DOWN | 2 | 0.009 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.004 | 0.004 | 0.004 |
| TOPEKA, KS | 2nd Max. 24-hr | NS | 2 | 0.041 | 0.040 | 0.033 | 0.022 | 0.029 | 0.028 | 0.047 | 0.025 | 0.031 | 0.020 |
| | LEAD | DOWN | 4 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 40 | 40 | 33 | 26 | 28 | 27 | 29 | 34 | 27 | 28 |
| | 99th Percentile | NS | 1 | 70 | 70 | 80 | 62 | 61 | 54 | 50 | 83 | 86 | 60 |
| TRENTON, NJ | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | DOWN | 2 | 0.12 | 0.10 | 0.11 | 0.12 | 0.11 | 0.10 | 0.10 | 0.11 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | DOWN | 2 | 0.17 | 0.14 | 0.14 | 0.15 | 0.14 | 0.13 | 0.14 | 0.13 | 0.12 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 32 | 30 | 29 | 31 | 26 | 27 | 29 | 24 | 27 | 27 |
| | 99th Percentile | NS | 1 | 87 | 69 | 77 | 68 | 56 | 72 | 65 | 58 | 79 | 87 |
| TULSA, OK | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 2 | 4.2 | 5.6 | 4.7 | 4.6 | 5.1 | 3.9 | 3.9 | 3.4 | 5.3 | 5.7 |
| | LEAD | DOWN | 1 | 0.13 | 0.20 | 0.11 | 0.21 | 0.10 | 0.20 | 0.10 | 0.09 | 0.11 | 0.02 |
| NO ₂ | Arithmetic Mean | NS | 2 | 0.013 | 0.014 | 0.011 | 0.013 | 0.013 | 0.013 | 0.013 | 0.010 | 0.012 | 0.012 |
| | OZONE | NS | 3 | 0.09 | 0.08 | 0.09 | 0.09 | 0.08 | 0.08 | 0.09 | 0.10 | 0.09 | 0.08 |
| PM ₁₀ | 2nd Daily Max. 1-hr | NS | 3 | 0.12 | 0.11 | 0.12 | 0.11 | 0.10 | 0.11 | 0.11 | 0.12 | 0.11 | 0.11 |
| | Weighted Annual Mean | NS | 5 | 28 | 28 | 24 | 25 | 24 | 26 | 26 | 26 | 26 | 24 |
| SO ₂ | 99th Percentile | NS | 5 | 73 | 82 | 67 | 61 | 61 | 67 | 56 | 66 | 66 | 73 |
| | Arithmetic Mean | NS | 2 | 0.009 | 0.006 | 0.009 | 0.009 | 0.009 | 0.006 | 0.005 | 0.007 | 0.008 | 0.007 |
| 2nd Max. 24-hr | NS | 2 | 0.045 | 0.035 | 0.046 | 0.052 | 0.048 | 0.035 | 0.031 | 0.031 | 0.036 | 0.029 | |
| | | | | | | | | | | | | | |
| TUSCALOOSA, AL | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 29 | 29 | 32 | 28 | 26 | 26 | 26 | 27 | 26 | 25 |
| | 99th Percentile | NS | 1 | 60 | 60 | 85 | 111 | 45 | 67 | 53 | 67 | 67 | 70 |
| TUSCON, AZ | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 4 | 6.7 | 5.9 | 4.6 | 4.5 | 4.7 | 4.6 | 4.6 | 4.4 | 4.1 | 3.7 |
| | Arithmetic Mean | DOWN | 2 | 0.021 | 0.021 | 0.020 | 0.021 | 0.020 | 0.020 | 0.020 | 0.020 | 0.018 | 0.018 |
| NO ₂ | OZONE | NS | 7 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 7 | 0.09 | 0.09 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 9 | 38 | 40 | 33 | 26 | 24 | 22 | 22 | 26 | 25 | 26 |
| | 99th Percentile | NS | 9 | 92 | 100 | 99 | 62 | 58 | 53 | 46 | 71 | 61 | 69 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 | 0.002 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 |
| UTICA-ROME, NY | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.10 | 0.08 | 0.09 | 0.09 | 0.08 | 0.07 | 0.07 | 0.08 | 0.06 | 0.07 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.12 | 0.09 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.10 | 0.08 | 0.09 |
| VALLEJO-FAIRFIELD-NAPA, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 2 | 7.3 | 7.4 | 6.9 | 6.6 | 5.6 | 5.6 | 5.2 | 4.2 | 4.2 | 4.4 |
| | OZONE | NS | 3 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.06 |
| PM ₁₀ | 2nd Daily Max. 1-hr | NS | 3 | 0.10 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 | 0.10 | 0.11 | 0.10 | 0.08 |
| | Weighted Annual Mean | DOWN | 1 | 27 | 27 | 27 | 41 | 24 | 23 | 21 | 19 | 17 | 16 |
| 99th Percentile | DOWN | 1 | 96 | 96 | 96 | 98 | 70 | 47 | 76 | 62 | 45 | 74 | |
| | | | | | | | | | | | | | |
| VENTURA, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 2 | 3.3 | 3.0 | 3.3 | 3.1 | 2.3 | 2.5 | 2.8 | 3.2 | 2.4 | 2.4 |
| | LEAD | DOWN | 1 | 0.04 | 0.04 | 0.02 | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| NO ₂ | Arithmetic Mean | DOWN | 4 | 0.016 | 0.017 | 0.016 | 0.015 | 0.014 | 0.014 | 0.014 | 0.014 | 0.013 | 0.012 |
| | OZONE | DOWN | 6 | 0.11 | 0.11 | 0.10 | 0.11 | 0.10 | 0.09 | 0.10 | 0.10 | 0.09 | 0.08 |
| PM ₁₀ | 2nd Daily Max. 1-hr | DOWN | 6 | 0.14 | 0.15 | 0.13 | 0.14 | 0.13 | 0.12 | 0.13 | 0.13 | 0.13 | 0.11 |
| | Weighted Annual Mean | DOWN | 6 | 38 | 38 | 34 | 35 | 30 | 27 | 29 | 27 | 26 | 28 |
| 99th Percentile | NS | 6 | 92 | 80 | 94 | 73 | 71 | 57 | 64 | 71 | 64 | 107 | |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| VINELAND-MILLVILLE-BRIDGETON, NJ | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.13 | 0.11 | 0.11 | 0.11 | 0.09 | 0.10 | 0.09 | 0.09 | 0.09 | 0.10 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.15 | 0.13 | 0.13 | 0.12 | 0.10 | 0.12 | 0.10 | 0.13 | 0.11 | 0.12 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.009 | 0.008 | 0.007 | 0.007 | 0.006 | 0.006 | 0.005 | 0.004 | 0.005 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.034 | 0.049 | 0.024 | 0.023 | 0.021 | 0.019 | 0.032 | 0.016 | 0.016 | 0.018 |
| VISALIA-TULARE-PORTERVILLE, CA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 5.6 | 5.9 | 5.0 | 5.3 | 4.3 | 3.5 | 4.0 | 4.2 | 3.9 | 3.5 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.023 | 0.021 | 0.021 | 0.022 | 0.020 | 0.023 | 0.023 | 0.023 | 0.018 | 0.019 |
| OZONE | 4th Max. 8-hr | NS | 3 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 |
| | 2nd Daily Max. 1-hr | NS | 3 | 0.12 | 0.13 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.12 | 0.13 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 60 | 61 | 69 | 61 | 51 | 49 | 42 | 47 | 40 | 40 |
| | 99th Percentile | DOWN | 2 | 125 | 196 | 225 | 149 | 110 | 100 | 101 | 121 | 96 | 94 |
| WASHINGTON, DC-MD-VA-WV | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 8 | 6.4 | 6.2 | 5.2 | 5.0 | 4.4 | 5.0 | 4.5 | 4.4 | 3.9 | 4.0 |
| LEAD | Max. Quarterly Mean | DOWN | 5 | 0.04 | 0.05 | 0.05 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 |
| NO ₂ | Arithmetic Mean | NS | 7 | 0.025 | 0.025 | 0.027 | 0.026 | 0.026 | 0.026 | 0.026 | 0.023 | 0.023 | 0.023 |
| OZONE | 4th Max. 8-hr | NS | 12 | 0.12 | 0.09 | 0.09 | 0.10 | 0.09 | 0.10 | 0.09 | 0.10 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 12 | 0.16 | 0.11 | 0.12 | 0.13 | 0.11 | 0.12 | 0.12 | 0.12 | 0.11 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 8 | 29 | 31 | 26 | 26 | 22 | 22 | 21 | 22 | 20 | 20 |
| | 99th Percentile | DOWN | 8 | 80 | 84 | 73 | 61 | 45 | 63 | 51 | 51 | 51 | 54 |
| SO ₂ | Arithmetic Mean | DOWN | 4 | 0.009 | 0.010 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 |
| | 2nd Max. 24-hr | DOWN | 4 | 0.030 | 0.038 | 0.030 | 0.029 | 0.033 | 0.027 | 0.031 | 0.020 | 0.028 | 0.022 |
| WATERBURY, CT | | | | | | | | | | | | | |
| PM ₁₀ | Weighted Annual Mean | NS | 2 | 31 | 32 | 34 | 30 | 23 | 24 | 26 | 24 | 26 | 24 |
| | 99th Percentile | DOWN | 2 | 90 | 71 | 86 | 69 | 63 | 65 | 57 | 73 | 68 | 47 |
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.010 | 0.010 | 0.010 | 0.009 | 0.007 | 0.006 | 0.007 | 0.005 | 0.005 | 0.005 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.055 | 0.048 | 0.042 | 0.038 | 0.029 | 0.021 | 0.030 | 0.019 | 0.022 | 0.020 |
| WEST PALM BEACH-BOCA RATON, FL | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 4.0 | 3.7 | 2.7 | 3.1 | 3.7 | 3.1 | 2.8 | 2.8 | 2.5 | 3.6 |
| NO ₂ | Arithmetic Mean | NS | 1 | 0.013 | 0.013 | 0.014 | 0.012 | 0.011 | 0.013 | 0.012 | 0.012 | 0.012 | 0.012 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.06 | 0.06 | 0.07 | 0.06 | 0.05 | 0.08 | 0.07 | 0.06 | 0.06 | 0.06 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.10 | 0.09 | 0.08 | 0.07 | 0.12 | 0.08 | 0.08 | 0.09 | 0.08 |
| PM ₁₀ | Weighted Annual Mean | NS | 2 | 19 | 19 | 19 | 18 | 20 | 19 | 18 | 18 | 18 | 20 |
| | 99th Percentile | UP | 2 | 39 | 39 | 39 | 41 | 63 | 70 | 63 | 45 | 63 | 65 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.001 | 0.003 | 0.002 | 0.002 | 0.003 | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 |
| | 2nd Max. 24-hr | UP | 1 | 0.004 | 0.009 | 0.007 | 0.012 | 0.010 | 0.028 | 0.016 | 0.019 | 0.014 | 0.013 |
| WHEELING, WV-OH | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 4.0 | 5.2 | 7.1 | 5.6 | 5.6 | 4.1 | 4.6 | 5.0 | 3.5 | 3.1 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.10 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.11 | 0.10 | 0.10 | 0.11 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 34 | 34 | 30 | 31 | 30 | 29 | 28 | 28 | 28 | 24 |
| | 99th Percentile | DOWN | 2 | 88 | 81 | 85 | 68 | 75 | 80 | 75 | 67 | 82 | 49 |
| SO ₂ | Arithmetic Mean | DOWN | 3 | 0.021 | 0.021 | 0.020 | 0.020 | 0.018 | 0.018 | 0.015 | 0.010 | 0.011 | 0.010 |
| | 2nd Max. 24-hr | NS | 3 | 0.072 | 0.065 | 0.064 | 0.074 | 0.077 | 0.075 | 0.065 | 0.055 | 0.058 | 0.043 |
| WICHITA, KS | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 3 | 7.0 | 7.9 | 5.9 | 5.9 | 5.6 | 5.0 | 4.9 | 5.2 | 5.8 | 4.8 |
| LEAD | Max. Quarterly Mean | DOWN | 5 | 0.03 | 0.03 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.08 | 0.07 | 0.08 | 0.08 | 0.07 | 0.06 | 0.07 | 0.07 | 0.07 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.10 | 0.07 | 0.10 | 0.09 | 0.08 | 0.08 | 0.09 | 0.10 | 0.09 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 4 | 31 | 30 | 28 | 31 | 32 | 31 | 26 | 27 | 25 | 22 |
| | 99th Percentile | NS | 4 | 71 | 72 | 69 | 86 | 84 | 91 | 71 | 92 | 100 | 66 |
| WILLIAMSPORT, PA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.10 | 0.07 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.12 | 0.08 | 0.09 | 0.10 | 0.09 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 29 | 29 | 26 | 31 | 24 | 24 | 28 | 28 | 25 | 26 |
| | 99th Percentile | NS | 1 | 72 | 72 | 64 | 74 | 45 | 63 | 64 | 60 | 64 | 57 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.009 | 0.007 | 0.006 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.008 |
| | 2nd Max. 24-hr | NS | 1 | 0.035 | 0.042 | 0.025 | 0.025 | 0.029 | 0.025 | 0.042 | 0.027 | 0.028 | 0.028 |
| WILMINGTON-NEWARK, DE-MD | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | NS | 1 | 5.3 | 4.5 | 5.4 | 4.0 | 4.1 | 3.8 | 4.3 | 4.6 | 3.6 | 4.5 |
| OZONE | 4th Max. 8-hr | DOWN | 1 | 0.13 | 0.10 | 0.10 | 0.11 | 0.09 | 0.09 | 0.09 | 0.12 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.19 | 0.12 | 0.14 | 0.14 | 0.12 | 0.14 | 0.12 | 0.14 | 0.11 | 0.12 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 32 | 42 | 37 | 33 | 28 | 29 | 38 | 37 | 32 | 32 |
| | 99th Percentile | NS | 1 | 61 | 87 | 107 | 67 | 72 | 71 | 85 | 77 | 71 | 92 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.016 | 0.016 | 0.013 | 0.012 | 0.013 | 0.013 | 0.012 | 0.010 | 0.009 | 0.008 |
| | 2nd Max. 24-hr | DOWN | 2 | 0.054 | 0.048 | 0.043 | 0.033 | 0.046 | 0.041 | 0.044 | 0.036 | 0.035 | 0.034 |
| WORCESTER, MA-CT | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 5.6 | 7.9 | 6.0 | 7.2 | 8.0 | 6.1 | 5.9 | 4.2 | 5.3 | 3.4 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.029 | 0.026 | 0.022 | 0.023 | 0.024 | 0.028 | 0.025 | 0.021 | 0.019 | 0.019 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 2 | 27 | 26 | 23 | 21 | 20 | 20 | 20 | 19 | 20 | 20 |
| | 99th Percentile | NS | 2 | 65 | 58 | 60 | 50 | 44 | 46 | 46 | 53 | 54 | 52 |

Table A-14. Metropolitan Statistical Area Air Quality Trends, 1988–1997 (continued)

| Metropolitan Statistical Area | | Trend | #Trend Sites | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-------------------------------|----------------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SO ₂ | Arithmetic Mean | DOWN | 1 | 0.009 | 0.011 | 0.008 | 0.009 | 0.007 | 0.007 | 0.008 | 0.006 | 0.005 | 0.004 |
| | 2nd Max. 24-hr | DOWN | 1 | 0.042 | 0.040 | 0.034 | 0.029 | 0.033 | 0.025 | 0.024 | 0.023 | 0.021 | 0.021 |
| YAKIMA, WA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 8.9 | 8.7 | 7.4 | 9.0 | 8.8 | 7.9 | 8.0 | 7.1 | 7.4 | 7.4 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 34 | 34 | 34 | 44 | 32 | 38 | 31 | 24 | 35 | 35 |
| | 99th Percentile | NS | 1 | 112 | 112 | 112 | 255 | 89 | 97 | 89 | 55 | 119 | 110 |
| YORK, PA | | | | | | | | | | | | | |
| CO | 2nd Max. 8-hr | DOWN | 1 | 4.2 | 4.6 | 4.4 | 3.7 | 3.6 | 3.3 | 3.9 | 2.7 | 2.8 | 3.4 |
| NO ₂ | Arithmetic Mean | DOWN | 1 | 0.023 | 0.022 | 0.022 | 0.021 | 0.020 | 0.022 | 0.024 | 0.021 | 0.021 | 0.019 |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.12 | 0.09 | 0.10 | 0.10 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 |
| | 2nd Daily Max. 1-hr | NS | 1 | 0.14 | 0.10 | 0.12 | 0.11 | 0.10 | 0.11 | 0.12 | 0.10 | 0.10 | 0.11 |
| PM ₁₀ | Weighted Annual Mean | NS | 1 | 33 | 31 | 30 | 32 | 27 | 31 | 32 | 30 | 28 | 31 |
| | 99th Percentile | NS | 1 | 88 | 79 | 91 | 76 | 51 | 95 | 82 | 68 | 63 | 82 |
| SO ₂ | Arithmetic Mean | NS | 1 | 0.007 | 0.008 | 0.007 | 0.008 | 0.007 | 0.008 | 0.009 | 0.006 | 0.007 | 0.009 |
| | 2nd Max. 24-hr | NS | 1 | 0.029 | 0.035 | 0.023 | 0.020 | 0.034 | 0.032 | 0.041 | 0.020 | 0.022 | 0.026 |
| YOUNGSTOWN-WARREN, OH | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 1 | 0.11 | 0.09 | 0.08 | 0.10 | 0.09 | 0.08 | 0.08 | 0.10 | 0.09 | 0.08 |
| | 2nd Daily Max. 1-hr | DOWN | 1 | 0.12 | 0.11 | 0.10 | 0.12 | 0.10 | 0.10 | 0.10 | 0.11 | 0.10 | 0.10 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 6 | 37 | 36 | 31 | 34 | 31 | 30 | 31 | 30 | 28 | 26 |
| | 99th Percentile | DOWN | 6 | 105 | 98 | 81 | 82 | 90 | 77 | 91 | 86 | 80 | 58 |
| SO ₂ | Arithmetic Mean | DOWN | 2 | 0.014 | 0.016 | 0.016 | 0.016 | 0.013 | 0.011 | 0.011 | 0.010 | 0.009 | 0.008 |
| | 2nd Max. 24-hr | NS | 2 | 0.077 | 0.043 | 0.053 | 0.048 | 0.056 | 0.063 | 0.051 | 0.038 | 0.044 | 0.037 |
| YUBA CITY, CA | | | | | | | | | | | | | |
| OZONE | 4th Max. 8-hr | NS | 2 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.07 |
| | 2nd Daily Max. 1-hr | NS | 2 | 0.11 | 0.09 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.11 | 0.11 | 0.09 |
| PM ₁₀ | Weighted Annual Mean | DOWN | 1 | 39 | 39 | 39 | 39 | 34 | 30 | 34 | 33 | 29 | 29 |
| | 99th Percentile | NS | 1 | 96 | 96 | 96 | 108 | 79 | 78 | 154 | 128 | 82 | 98 |

- CO = Highest second maximum non-overlapping 8-hour concentration (*Applicable NAAQS is 9 ppm*)
- Pb = Highest quarterly maximum concentration (*Applicable NAAQS is 1.5 ug/m³*)
- NO₂ = Highest arithmetic mean concentration (*Applicable NAAQS is 0.053 ppm*)
- O₃ = Highest second daily maximum 1-hour concentration (*Applicable NAAQS is 0.12 ppm*)
- = Highest fourth daily maximum 8-hour concentration (*Applicable NAAQS is 0.08 ppm*)
- PM₁₀ = Highest weighted annual mean concentration (*Applicable NAAQS is 50 ug/m³*)
- = Highest second maximum 24-hour concentration (*Applicable NAAQS is 150 ug/m³*)
- = Highest 99th percentile 24-hour concentration (*Applicable NAAQS is 150 ug/m³*)
- Data from exceptional events not included.
- SO₂ = Highest annual mean concentration (*Applicable NAAQS is 0.03 ppm*)
- = Highest second maximum 24-hour concentration (*Applicable NAAQS is 0.14 ppm*)

Table A-15. Number of Days with PSI Values Greater Than 100 at Trend Sites, 1988–1997, and All Sites in 1997

| Metropolitan Statistical Area | # of Trend Sites | | | | | | | | | | | Total PSI | |
|--------------------------------------|------------------|------|------|------|------|------|------|------|------|------|------|------------|------------|
| | | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | # of Sites | > 100 1997 |
| AKRON, OH | 5 | 46 | 15 | 9 | 30 | 8 | 10 | 8 | 12 | 11 | 6 | 7 | 6 |
| ALBANY-SCHENECTADY-TROY, NY | 7 | 23 | 4 | 4 | 9 | 5 | 5 | 6 | 3 | 4 | 3 | 13 | 3 |
| ALBUQUERQUE, NM | 21 | 9 | 9 | 8 | 5 | 0 | 0 | 1 | 1 | 0 | 0 | 26 | 0 |
| ALLENTOWN-BETHLEHEM-EASTON, PA | 7 | 35 | 11 | 10 | 14 | 3 | 6 | 10 | 17 | 6 | 13 | 9 | 13 |
| ATLANTA, GA | 9 | 44 | 17 | 52 | 24 | 19 | 42 | 13 | 43 | 22 | 26 | 17 | 36 |
| AUSTIN-SAN MARCOS, TX | 5 | 7 | 4 | 4 | 3 | 1 | 2 | 4 | 12 | 0 | 0 | 5 | 6 |
| BAKERSFIELD, CA | 7 | 126 | 114 | 97 | 109 | 100 | 97 | 97 | 104 | 109 | 55 | 18 | 58 |
| BALTIMORE, MD | 16 | 60 | 28 | 29 | 50 | 23 | 48 | 41 | 36 | 28 | 30 | 23 | 30 |
| BATON ROUGE, LA | 6 | 17 | 11 | 28 | 11 | 5 | 5 | 7 | 15 | 7 | 8 | 12 | 16 |
| BERGEN-PASSAIC, NJ | 8 | 27 | 12 | 9 | 11 | 2 | 3 | 5 | 10 | 3 | 5 | 9 | 5 |
| BIRMINGHAM, AL | 17 | 33 | 5 | 28 | 5 | 12 | 10 | 6 | 32 | 15 | 8 | 17 | 8 |
| BOSTON, MA-NH | 24 | 28 | 12 | 7 | 13 | 9 | 6 | 10 | 8 | 2 | 8 | 27 | 10 |
| BUFFALO-NIAGARA FALLS, NY | 21 | 31 | 4 | 8 | 9 | 3 | 1 | 4 | 6 | 3 | 1 | 21 | 1 |
| CHARLESTON-NORTH CHARLESTON, SC | 8 | 11 | 5 | 1 | 2 | 0 | 2 | 2 | 1 | 3 | 3 | 9 | 3 |
| CHARLOTTE-GASTONIA-ROCK HILL, NC-SC | 10 | 43 | 13 | 31 | 12 | 11 | 23 | 9 | 13 | 18 | 26 | 31 | 31 |
| CHICAGO, IL | 42 | 40 | 16 | 5 | 21 | 4 | 3 | 8 | 21 | 6 | 9 | 64 | 10 |
| CINCINNATI, OH-KY-IN | 21 | 57 | 19 | 19 | 22 | 3 | 13 | 19 | 22 | 11 | 11 | 25 | 14 |
| CLEVELAND-LORAIN-ELYRIA, OH | 24 | 45 | 19 | 10 | 23 | 11 | 13 | 23 | 24 | 17 | 12 | 43 | 16 |
| COLUMBUS, OH | 9 | 24 | 7 | 4 | 9 | 1 | 6 | 7 | 7 | 11 | 5 | 14 | 14 |
| DALLAS, TX | 8 | 37 | 18 | 24 | 2 | 11 | 11 | 15 | 36 | 12 | 15 | 22 | 32 |
| DAYTON-SPRINGFIELD, OH | 10 | 37 | 10 | 13 | 12 | 2 | 11 | 14 | 11 | 18 | 9 | 13 | 13 |
| DENVER, CO | 20 | 35 | 16 | 11 | 7 | 8 | 3 | 2 | 2 | 0 | 0 | 32 | 0 |
| DETROIT, MI | 30 | 35 | 18 | 11 | 28 | 8 | 5 | 13 | 14 | 13 | 12 | 35 | 12 |
| EL PASO, TX | 17 | 15 | 26 | 22 | 7 | 11 | 9 | 8 | 5 | 7 | 3 | 22 | 4 |
| FORT LAUDERDALE, FL | 7 | 3 | 6 | 1 | 0 | 2 | 4 | 1 | 1 | 1 | 0 | 19 | 0 |
| FORT WORTH-ARLINGTON, TX | 8 | 27 | 17 | 16 | 20 | 7 | 9 | 31 | 28 | 14 | 14 | 8 | 14 |
| FRESNO, CA | 9 | 110 | 91 | 62 | 83 | 61 | 59 | 55 | 60 | 65 | 50 | 16 | 75 |
| GARY, IN | 19 | 37 | 16 | 14 | 12 | 5 | 1 | 6 | 17 | 11 | 12 | 22 | 12 |
| GRAND RAPIDS-MUSKEGON-HOLLAND, MI | 7 | 36 | 16 | 10 | 20 | 4 | 2 | 6 | 11 | 6 | 6 | 10 | 10 |
| GREENSBORO-WINSTON-SALEM-HIGH PT, NC | 8 | 46 | 8 | 12 | 5 | 2 | 21 | 9 | 8 | 6 | 13 | 22 | 17 |
| GREENVILLE-SPARTANBURG-ANDERSON, SC | 4 | 35 | 3 | 2 | 3 | 4 | 7 | 4 | 5 | 7 | 9 | 8 | 10 |
| HARRISBURG-LEBANON-CARLISLE, PA | 7 | 39 | 10 | 10 | 21 | 1 | 15 | 12 | 13 | 3 | 9 | 7 | 9 |
| HARTFORD, CT | 14 | 39 | 19 | 13 | 23 | 15 | 14 | 18 | 15 | 5 | 16 | 15 | 16 |
| HONOLULU, HI | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 |
| HOUSTON, TX | 26 | 72 | 43 | 54 | 37 | 32 | 28 | 45 | 65 | 28 | 47 | 29 | 47 |
| INDIANAPOLIS, IN | 31 | 39 | 15 | 9 | 12 | 7 | 9 | 22 | 19 | 13 | 12 | 31 | 12 |
| JACKSONVILLE, FL | 15 | 4 | 4 | 3 | 0 | 2 | 3 | 2 | 1 | 1 | 4 | 17 | 4 |
| JERSEY CITY, NJ | 7 | 30 | 14 | 15 | 25 | 9 | 19 | 11 | 14 | 5 | 9 | 8 | 9 |
| KANSAS CITY, MO-KS | 22 | 23 | 5 | 2 | 11 | 1 | 3 | 10 | 22 | 10 | 18 | 25 | 18 |
| KNOXVILLE, TN | 13 | 33 | 2 | 23 | 10 | 7 | 20 | 13 | 20 | 19 | 36 | 21 | 38 |
| LAS VEGAS, NV-AZ | 6 | 30 | 45 | 22 | 10 | 6 | 9 | 14 | 4 | 5 | 0 | 19 | 6 |
| LITTLE ROCK-NORTH LITTLE ROCK, AR | 7 | 9 | 1 | 1 | 3 | 0 | 2 | 2 | 7 | 1 | 1 | 8 | 1 |
| LOS ANGELES-LONG BEACH, CA | 36 | 239 | 222 | 174 | 174 | 178 | 137 | 144 | 109 | 94 | 63 | 38 | 66 |
| LOUISVILLE, KY-IN | 17 | 49 | 15 | 10 | 15 | 2 | 19 | 27 | 21 | 10 | 13 | 26 | 18 |
| MEMPHIS, TN-AR-MS | 12 | 44 | 8 | 24 | 9 | 14 | 16 | 11 | 18 | 17 | 14 | 15 | 17 |
| MIAMI, FL | 10 | 8 | 6 | 1 | 1 | 3 | 6 | 1 | 2 | 1 | 3 | 12 | 3 |
| MIDDLESEX-SOMERSET-HUNTERDON, NJ | 4 | 35 | 19 | 22 | 24 | 8 | 11 | 9 | 15 | 8 | 18 | 4 | 19 |
| MILWAUKEE-WAUKESHA, WI | 18 | 40 | 17 | 8 | 24 | 3 | 4 | 8 | 13 | 5 | 4 | 22 | 5 |
| MINNEAPOLIS-ST. PAUL, MN-WI | 24 | 11 | 8 | 4 | 2 | 3 | 0 | 2 | 7 | 2 | 0 | 41 | 0 |

Table A-15. Number of Days with PSI Values Greater Than 100 at Trend Sites, 1988–1997, and All Sites in 1997 (continued)

| Metropolitan Statistical Area | # of Trend Sites | | | | | | | | | | | Total # of Sites | PSI > 100 1997 |
|--------------------------------------|------------------|------|------|------|------|------|------|------|------|------|------|------------------|----------------|
| | | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | | |
| MONMOUTH-OCEAN, NJ | 3 | 0 | 14 | 21 | 20 | 6 | 11 | 3 | 6 | 12 | 12 | 4 | 21 |
| NASHVILLE, TN | 19 | 55 | 11 | 31 | 13 | 6 | 18 | 21 | 27 | 23 | 20 | 19 | 24 |
| NASSAU-SUFFOLK, NY | 4 | 22 | 14 | 20 | 25 | 5 | 15 | 10 | 9 | 6 | 8 | 8 | 12 |
| NEW HAVEN-MERIDEN, CT | 10 | 26 | 11 | 15 | 30 | 10 | 12 | 13 | 14 | 8 | 19 | 10 | 19 |
| NEW ORLEANS, LA | 10 | 24 | 4 | 6 | 2 | 5 | 6 | 8 | 18 | 8 | 6 | 13 | 7 |
| NEW YORK, NY | 28 | 57 | 30 | 37 | 50 | 11 | 19 | 21 | 19 | 15 | 23 | 40 | 24 |
| NEWARK, NJ | 12 | 41 | 21 | 23 | 33 | 10 | 12 | 14 | 20 | 12 | 13 | 15 | 13 |
| NORFOLK-VA BEACH-NEWPORT NEWS,VA-NC | 11 | 23 | 4 | 8 | 6 | 7 | 12 | 4 | 3 | 4 | 15 | 12 | 17 |
| OAKLAND, CA | 19 | 8 | 6 | 4 | 4 | 3 | 4 | 3 | 12 | 11 | 0 | 33 | 0 |
| OKLAHOMA CITY, OK | 12 | 8 | 6 | 4 | 4 | 2 | 2 | 7 | 13 | 3 | 4 | 12 | 4 |
| OMAHA, NE-IA | 9 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 13 | 0 |
| ORANGE COUNTY, CA | 12 | 56 | 58 | 46 | 35 | 38 | 25 | 15 | 9 | 9 | 3 | 12 | 3 |
| ORLANDO, FL | 9 | 2 | 9 | 4 | 1 | 4 | 4 | 3 | 1 | 1 | 4 | 14 | 5 |
| PHILADELPHIA, PA-NJ | 34 | 53 | 44 | 39 | 48 | 24 | 50 | 26 | 30 | 22 | 32 | 49 | 39 |
| PHOENIX-MESA, AZ | 23 | 29 | 34 | 13 | 11 | 15 | 17 | 11 | 25 | 17 | 15 | 52 | 44 |
| PITTSBURGH, PA | 38 | 43 | 21 | 19 | 22 | 9 | 13 | 19 | 25 | 11 | 20 | 56 | 21 |
| PONCE, PR | 1 | 0 | 0 | 0 | 0 | 0 | . | . | 0 | 0 | 1 | 1 | 1 |
| PORTLAND-VANCOUVER, OR-WA | 12 | 9 | 5 | 12 | 10 | 6 | 0 | 3 | 2 | 6 | 0 | 17 | 0 |
| PROVIDENCE-FALL RIVER-WARWICK, RI-MA | 11 | 18 | 9 | 13 | 18 | 5 | 7 | 7 | 11 | 4 | 10 | 21 | 11 |
| RALEIGH-DURHAM-CHAPEL HILL, NC | 4 | 4 | 14 | 15 | 6 | 1 | 11 | 2 | 1 | 1 | 13 | 18 | 24 |
| RICHMOND-PETERSBURG, VA | 10 | 37 | 11 | 6 | 18 | 8 | 30 | 13 | 19 | 5 | 21 | 11 | 21 |
| RIVERSIDE-SAN BERNARDINO, CA | 36 | 185 | 190 | 158 | 159 | 175 | 167 | 148 | 125 | 118 | 106 | 56 | 123 |
| ROCHESTER, NY | 8 | 24 | 5 | 5 | 16 | 2 | 0 | 1 | 6 | 0 | 6 | 8 | 6 |
| SACRAMENTO, CA | 13 | 88 | 71 | 66 | 69 | 48 | 22 | 37 | 34 | 33 | 2 | 35 | 19 |
| ST. LOUIS, MO-IL | 53 | 44 | 29 | 24 | 33 | 16 | 9 | 32 | 35 | 20 | 15 | 60 | 15 |
| SALT LAKE CITY-OGDEN, UT | 12 | 16 | 22 | 5 | 20 | 9 | 2 | 4 | 4 | 9 | 1 | 26 | 2 |
| SAN ANTONIO, TX | 7 | 7 | 3 | 4 | 3 | 1 | 3 | 4 | 18 | 3 | 3 | 7 | 3 |
| SAN DIEGO, CA | 20 | 123 | 128 | 97 | 67 | 66 | 57 | 45 | 47 | 31 | 14 | 28 | 16 |
| SAN FRANCISCO, CA | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 11 | 0 |
| SAN JOSE, CA | 8 | 24 | 21 | 10 | 13 | 3 | 4 | 2 | 9 | 7 | 0 | 11 | 0 |
| SAN JUAN-BAYAMON, PR | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 27 | 2 |
| SCRANTON-WILKES-BARRE-HAZLETON, PA | 10 | 30 | 6 | 9 | 15 | 3 | 8 | 6 | 10 | 4 | 9 | 11 | 11 |
| SEATTLE-BELLEVUE-EVERETT, WA | 16 | 20 | 7 | 10 | 5 | 3 | 0 | 3 | 0 | 6 | 1 | 23 | 1 |
| SPRINGFIELD, MA | 13 | 29 | 10 | 13 | 15 | 12 | 13 | 12 | 10 | 5 | 10 | 13 | 10 |
| SYRACUSE, NY | 4 | 1 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 2 |
| TACOMA, WA | 7 | 10 | 4 | 5 | 1 | 3 | 0 | 2 | 0 | 1 | 0 | 9 | 0 |
| TAMPA-ST. PETERSBURG-CLEARWATER, FL | 22 | 9 | 4 | 6 | 1 | 1 | 1 | 3 | 2 | 3 | 4 | 32 | 4 |
| TOLEDO, OH | 5 | 29 | 8 | 3 | 6 | 1 | 4 | 9 | 7 | 10 | 3 | 8 | 5 |
| TUSCON, AZ | 21 | 6 | 2 | 1 | 0 | 1 | 1 | 1 | 3 | 0 | 1 | 27 | 1 |
| TULSA, OK | 12 | 23 | 5 | 16 | 12 | 2 | 4 | 12 | 21 | 14 | 7 | 13 | 7 |
| VENTURA, CA | 13 | 108 | 93 | 70 | 89 | 55 | 44 | 64 | 66 | 62 | 44 | 15 | 48 |
| WASHINGTON, DC-MD-VA-WV | 32 | 56 | 27 | 26 | 49 | 15 | 47 | 21 | 30 | 18 | 28 | 47 | 31 |
| WEST PALM BEACH-BOCA RATON, FL | 6 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 10 | 0 |
| WILMINGTON-NEWARK, DE-MD | 5 | 28 | 12 | 9 | 12 | 7 | 10 | 5 | 12 | 3 | 6 | 12 | 21 |
| YOUNGSTOWN-WARREN, OH | 9 | 25 | 8 | 3 | 14 | 5 | 2 | 0 | 11 | 5 | 3 | 14 | 10 |

Table A-16. (Ozone only) Number of Days with PSI Values Greater Than 100 at Trend Sites, 1988–1997, and All Sites in 1997

| Metropolitan Statistical Area | # of Trend Sites | | | | | | | | | | | Total PSI | |
|--------------------------------------|------------------|------|------|------|------|------|------|------|------|------|------|------------|------------|
| | | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | # of Sites | > 100 1997 |
| AKRON, OH | 2 | 46 | 15 | 9 | 30 | 8 | 10 | 8 | 12 | 11 | 6 | 2 | 6 |
| ALBANY-SCHENECTADY-TROY, NY | 3 | 23 | 4 | 4 | 9 | 5 | 5 | 6 | 3 | 4 | 3 | 3 | 3 |
| ALBUQUERQUE, NM | 7 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 9 | 0 |
| ALLENTOWN-BETHLEHEM-EASTON, PA | 3 | 34 | 11 | 10 | 14 | 3 | 6 | 9 | 17 | 6 | 13 | 3 | 13 |
| ATLANTA, GA | 4 | 44 | 17 | 52 | 24 | 19 | 42 | 13 | 43 | 22 | 26 | 7 | 36 |
| AUSTIN-SAN MARCOS, TX | 2 | 7 | 4 | 4 | 3 | 1 | 2 | 4 | 12 | 0 | 0 | 2 | 6 |
| BAKERSFIELD, CA | 5 | 123 | 111 | 95 | 107 | 100 | 97 | 97 | 104 | 109 | 55 | 8 | 58 |
| BALTIMORE, MD | 7 | 57 | 28 | 28 | 50 | 23 | 48 | 40 | 36 | 28 | 30 | 9 | 30 |
| BATON ROUGE, LA | 3 | 17 | 11 | 28 | 11 | 5 | 5 | 7 | 15 | 7 | 8 | 7 | 16 |
| BERGEN-PASSAIC, NJ | 1 | 26 | 10 | 8 | 11 | 2 | 3 | 5 | 10 | 3 | 5 | 1 | 5 |
| BIRMINGHAM, AL | 6 | 32 | 5 | 28 | 5 | 12 | 10 | 6 | 32 | 15 | 8 | 6 | 8 |
| BOSTON, MA-NH | 4 | 28 | 12 | 7 | 13 | 9 | 6 | 10 | 8 | 2 | 8 | 6 | 10 |
| BUFFALO-NIAGARA FALLS, NY | 2 | 31 | 4 | 7 | 9 | 3 | 1 | 4 | 6 | 3 | 1 | 2 | 1 |
| CHARLESTON-NORTH CHARLESTON, SC | 3 | 11 | 5 | 1 | 1 | 0 | 2 | 2 | 1 | 3 | 3 | 3 | 3 |
| CHARLOTTE-GASTONIA-ROCK HILL, NC-SC | 3 | 43 | 12 | 29 | 12 | 11 | 23 | 9 | 13 | 18 | 26 | 7 | 31 |
| CHICAGO, IL | 16 | 40 | 15 | 3 | 21 | 4 | 3 | 7 | 21 | 6 | 9 | 22 | 10 |
| CINCINNATI, OH-KY-IN | 7 | 57 | 19 | 19 | 22 | 3 | 13 | 19 | 22 | 11 | 11 | 8 | 14 |
| CLEVELAND-LORAIN-ELYRIA, OH | 6 | 45 | 17 | 10 | 23 | 10 | 12 | 22 | 21 | 17 | 11 | 9 | 15 |
| COLUMBUS, OH | 2 | 24 | 7 | 4 | 9 | 0 | 6 | 7 | 7 | 11 | 5 | 5 | 14 |
| DALLAS, TX | 2 | 37 | 18 | 24 | 2 | 11 | 11 | 15 | 36 | 12 | 15 | 7 | 32 |
| DAYTON-SPRINGFIELD, OH | 3 | 37 | 10 | 13 | 12 | 2 | 11 | 14 | 11 | 18 | 9 | 5 | 13 |
| DENVER, CO | 5 | 20 | 5 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| DETROIT, MI | 8 | 34 | 18 | 11 | 28 | 7 | 5 | 11 | 12 | 12 | 12 | 8 | 12 |
| EL PASO, TX | 3 | 5 | 5 | 6 | 1 | 3 | 3 | 6 | 5 | 2 | 1 | 4 | 1 |
| FORT LAUDERDALE, FL | 3 | 3 | 6 | 1 | 0 | 2 | 4 | 1 | 1 | 1 | 0 | 3 | 0 |
| FORT WORTH-ARLINGTON, TX | 2 | 27 | 17 | 16 | 20 | 7 | 9 | 31 | 28 | 14 | 14 | 2 | 14 |
| FRESNO, CA | 4 | 109 | 89 | 54 | 81 | 61 | 59 | 55 | 60 | 65 | 50 | 7 | 75 |
| GARY, IN | 4 | 37 | 15 | 14 | 12 | 5 | 1 | 6 | 17 | 11 | 11 | 4 | 11 |
| GRAND RAPIDS-MUSKEGON-HOLLAND, MI | 3 | 36 | 16 | 10 | 20 | 4 | 2 | 6 | 11 | 6 | 6 | 5 | 10 |
| GREENSBORO-WINSTON-SALEM-HIGH PT, NC | 3 | 41 | 4 | 12 | 5 | 2 | 21 | 9 | 8 | 6 | 13 | 6 | 17 |
| GREENVILLE-SPARTANBURG-ANDERSON, SC | 3 | 35 | 3 | 2 | 3 | 4 | 7 | 4 | 5 | 7 | 9 | 4 | 10 |
| HARRISBURG-LEBANON-CARLISLE, PA | 3 | 39 | 10 | 10 | 21 | 1 | 15 | 12 | 13 | 3 | 9 | 3 | 9 |
| HARTFORD, CT | 3 | 36 | 18 | 13 | 21 | 14 | 14 | 18 | 13 | 5 | 16 | 3 | 16 |
| HONOLULU, HI | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| HOUSTON, TX | 10 | 72 | 43 | 54 | 37 | 32 | 28 | 45 | 65 | 28 | 47 | 12 | 47 |
| INDIANAPOLIS, IN | 6 | 39 | 15 | 9 | 11 | 6 | 9 | 22 | 19 | 13 | 12 | 9 | 12 |
| JACKSONVILLE, FL | 2 | 4 | 4 | 3 | 0 | 2 | 3 | 2 | 1 | 1 | 4 | 3 | 4 |
| JERSEY CITY, NJ | 1 | 30 | 14 | 15 | 25 | 9 | 19 | 11 | 14 | 5 | 9 | 1 | 9 |
| KANSAS CITY, MO-KS | 6 | 23 | 4 | 2 | 11 | 1 | 3 | 10 | 22 | 9 | 18 | 7 | 18 |
| KNOXVILLE, TN | 4 | 33 | 2 | 23 | 10 | 7 | 20 | 13 | 20 | 19 | 36 | 7 | 37 |
| LAS VEGAS, NV-AZ | 3 | 2 | 2 | 2 | 0 | 1 | 2 | 2 | 0 | 2 | 0 | 4 | 0 |
| LITTLE ROCK-NORTH LITTLE ROCK, AR | 2 | 9 | 1 | 1 | 3 | 0 | 2 | 2 | 7 | 1 | 1 | 2 | 1 |
| LOS ANGELES-LONG BEACH, CA | 13 | 180 | 149 | 128 | 124 | 139 | 108 | 117 | 92 | 68 | 42 | 14 | 45 |
| LOUISVILLE, KY-IN | 4 | 49 | 13 | 10 | 15 | 2 | 19 | 27 | 21 | 10 | 13 | 7 | 18 |
| MEMPHIS, TN-AR-MS | 3 | 43 | 5 | 22 | 8 | 12 | 13 | 10 | 18 | 16 | 14 | 4 | 17 |
| MIAMI, FL | 4 | 8 | 5 | 1 | 1 | 3 | 6 | 1 | 2 | 1 | 3 | 4 | 3 |
| MIDDLESEX-SOMERSET-HUNTERDON, NJ | 1 | 35 | 19 | 22 | 24 | 8 | 11 | 9 | 15 | 8 | 18 | 2 | 19 |
| MILWAUKEE-WAUKESHA, WI | 6 | 40 | 17 | 8 | 24 | 3 | 4 | 8 | 13 | 5 | 4 | 9 | 5 |

Table A-16. (Ozone only) Number of Days with PSI Values Greater Than 100 at Trend Sites, 1988–1997, and All Sites in 1997 (continued)

| Metropolitan Statistical Area | # of Trend Sites | | | | | | | | | | | Total # of Sites | PSI > 100 1997 |
|--------------------------------------|------------------|------|------|------|------|------|------|------|------|------|------|------------------|----------------|
| | | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | | |
| MINNEAPOLIS-ST. PAUL, MN-WI | 4 | 9 | 1 | 1 | 0 | 2 | 0 | 0 | 4 | 1 | 0 | 5 | 0 |
| MONMOUTH-OCEAN, NJ | 1 | 0 | 14 | 21 | 20 | 6 | 11 | 3 | 6 | 12 | 12 | 2 | 21 |
| NASHVILLE, TN | 7 | 55 | 9 | 31 | 13 | 6 | 18 | 21 | 27 | 23 | 20 | 7 | 24 |
| NASSAU-SUFFOLK, NY | 1 | 20 | 14 | 20 | 25 | 5 | 15 | 10 | 9 | 6 | 8 | 2 | 12 |
| NEW HAVEN-MERIDEN, CT | 2 | 26 | 11 | 13 | 28 | 10 | 12 | 13 | 14 | 8 | 19 | 2 | 19 |
| NEW ORLEANS, LA | 5 | 24 | 4 | 6 | 2 | 5 | 6 | 8 | 18 | 8 | 6 | 6 | 7 |
| NEW YORK, NY | 5 | 46 | 24 | 33 | 47 | 10 | 19 | 21 | 18 | 15 | 23 | 9 | 24 |
| NEWARK, NJ | 2 | 39 | 20 | 22 | 30 | 10 | 12 | 12 | 20 | 12 | 13 | 3 | 13 |
| NORFOLK-VA BEACH-NEWPORT NEWS,VA-NC | 2 | 22 | 4 | 8 | 6 | 7 | 12 | 4 | 3 | 4 | 15 | 3 | 17 |
| OAKLAND, CA | 7 | 8 | 6 | 4 | 3 | 3 | 4 | 3 | 12 | 11 | 0 | 10 | 0 |
| OKLAHOMA CITY, OK | 4 | 8 | 4 | 4 | 4 | 2 | 2 | 5 | 13 | 2 | 4 | 4 | 4 |
| OMAHA, NE-IA | 3 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| ORANGE COUNTY, CA | 4 | 47 | 43 | 38 | 35 | 35 | 25 | 15 | 8 | 9 | 3 | 4 | 3 |
| ORLANDO, FL | 3 | 2 | 9 | 4 | 1 | 4 | 4 | 3 | 1 | 1 | 4 | 4 | 5 |
| PHILADELPHIA, PA-NJ | 8 | 53 | 42 | 39 | 48 | 24 | 50 | 25 | 30 | 22 | 32 | 10 | 32 |
| PHOENIX-MESA, AZ | 8 | 9 | 4 | 7 | 7 | 11 | 16 | 7 | 19 | 17 | 10 | 20 | 14 |
| PITTSBURGH, PA | 8 | 39 | 14 | 11 | 20 | 8 | 13 | 19 | 24 | 11 | 20 | 12 | 20 |
| PONCE, PR | 0 | 0 | 0 | 0 | 0 | 0 | . | . | 0 | 0 | 0 | 0 | 0 |
| PORTLAND-VANCOUVER, OR-WA | 4 | 3 | 0 | 8 | 3 | 6 | 0 | 1 | 2 | 6 | 0 | 4 | 0 |
| PROVIDENCE-FALL RIVER-WARWICK, RI-MA | 2 | 18 | 9 | 13 | 18 | 5 | 7 | 7 | 11 | 4 | 10 | 4 | 11 |
| RALEIGH-DURHAM-CHAPEL HILL, NC | 1 | 0 | 10 | 15 | 5 | 0 | 11 | 2 | 1 | 1 | 13 | 8 | 24 |
| RICHMOND-PETERSBURG, VA | 4 | 37 | 11 | 6 | 18 | 8 | 30 | 13 | 19 | 5 | 21 | 4 | 21 |
| RIVERSIDE-SAN BERNARDINO, CA | 16 | 183 | 182 | 153 | 157 | 173 | 167 | 148 | 120 | 115 | 102 | 21 | 117 |
| ROCHESTER, NY | 2 | 24 | 5 | 5 | 16 | 2 | 0 | 1 | 6 | 0 | 6 | 2 | 6 |
| SACRAMENTO, CA | 6 | 66 | 35 | 42 | 55 | 47 | 20 | 37 | 34 | 33 | 2 | 14 | 19 |
| ST. LOUIS, MO-IL | 17 | 44 | 25 | 24 | 33 | 16 | 9 | 32 | 35 | 20 | 14 | 17 | 14 |
| SALT LAKE CITY-OGDEN, UT | 2 | 13 | 14 | 5 | 3 | 0 | 2 | 4 | 4 | 6 | 1 | 7 | 2 |
| SAN ANTONIO, TX | 2 | 7 | 3 | 4 | 3 | 1 | 3 | 4 | 18 | 3 | 3 | 2 | 3 |
| SAN DIEGO, CA | 8 | 119 | 122 | 96 | 67 | 66 | 57 | 45 | 47 | 31 | 14 | 10 | 16 |
| SAN FRANCISCO, CA | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 0 |
| SAN JOSE, CA | 4 | 19 | 7 | 4 | 5 | 3 | 4 | 2 | 9 | 7 | 0 | 6 | 0 |
| SAN JUAN-BAYAMON, PR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| SCRANTON-WILKES-BARRE-HAZLETON, PA | 3 | 30 | 6 | 9 | 15 | 3 | 8 | 6 | 10 | 4 | 9 | 4 | 11 |
| SEATTLE-BELLEVUE-EVERETT, WA | 2 | 1 | 0 | 7 | 3 | 3 | 0 | 3 | 0 | 6 | 1 | 5 | 1 |
| SPRINGFIELD, MA | 4 | 29 | 10 | 13 | 15 | 12 | 13 | 12 | 9 | 4 | 10 | 4 | 10 |
| SYRACUSE, NY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| TACOMA, WA | 1 | 2 | 0 | 4 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 2 | 0 |
| TAMPA-ST. PETERSBURG-CLEARWATER, FL | 6 | 8 | 4 | 6 | 1 | 1 | 1 | 3 | 2 | 3 | 4 | 7 | 4 |
| TOLEDO, OH | 2 | 29 | 8 | 3 | 6 | 1 | 4 | 9 | 7 | 10 | 3 | 5 | 5 |
| TUSCON, AZ | 7 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 3 | 0 | 1 | 7 | 1 |
| TULSA, OK | 3 | 23 | 5 | 16 | 12 | 1 | 4 | 12 | 21 | 14 | 7 | 3 | 7 |
| VENTURA, CA | 6 | 108 | 93 | 70 | 89 | 55 | 44 | 64 | 66 | 62 | 42 | 7 | 46 |
| WASHINGTON, DC-MD-VA-WV | 12 | 55 | 24 | 26 | 49 | 15 | 47 | 21 | 30 | 18 | 28 | 17 | 31 |
| WEST PALM BEACH-BOCA RATON, FL | 2 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 0 |
| WILMINGTON-NEWARK, DE-MD | 1 | 28 | 12 | 9 | 12 | 7 | 10 | 5 | 12 | 3 | 6 | 4 | 21 |
| YOUNGSTOWN-WARREN, OH | 1 | 25 | 8 | 3 | 14 | 5 | 2 | 0 | 11 | 5 | 3 | 3 | 10 |

Table A-17. Condensed Nonattainment Areas List(a)

| State | Area Name(b) | Pollutant(c) | | | | | Population(d) | | | | | | | |
|-------|--------------|-----------------------------------|----|-----------------|------------------|----|-----------------|----------------|----|-----------------|------------------|-------|--------|--------|
| | | O ₃ | CO | SO ₂ | PM ₁₀ | Pb | NO ₂ | O ₃ | CO | SO ₂ | PM ₁₀ | Pb | All | |
| 1 | AK | Anchorage | . | 1 | . | 1 | . | . | . | 222 | . | 170 | . | 222 |
| 2 | AK | Fairbanks | . | 1 | . | . | . | . | . | 30 | . | . | . | 30 |
| 3 | AK | Juneau | . | . | . | 1 | . | . | . | . | . | 12 | . | 12 |
| 4 | AL | Birmingham | 1 | . | . | . | . | . | . | 751 | . | . | . | 751 |
| 5 | AZ | Ajo | . | . | 1 | 1 | . | . | . | . | 6 | 6 | . | 6 |
| 6 | AZ | Bullhead City | . | . | . | 1 | . | . | . | . | . | 5 | . | 5 |
| 7 | AZ | Douglas | . | . | 1 | 1 | . | . | . | . | 13 | 13 | . | 13 |
| 8 | AZ | Miami-Hayden | . | . | 2 | 1 | . | . | . | . | 3 | 3 | . | 3 |
| 9 | AZ | Morenci | . | . | 1 | . | . | . | . | . | 8 | . | . | 8 |
| 10 | AZ | Nogales | . | . | . | 1 | . | . | . | . | . | 19 | . | 19 |
| 11 | AZ | Paul Spur | . | . | . | 1 | . | . | . | . | . | 1 | . | 1 |
| 12 | AZ | Payson | . | . | . | 1 | . | . | . | . | . | 8 | . | 8 |
| 13 | AZ | Phoenix | 1 | 1 | . | 1 | . | . | . | 2,092 | 2,006 | . | 2,122 | 2,122 |
| 14 | AZ | Rillito | . | . | . | 1 | . | . | . | . | . | 0 | . | 0 |
| 15 | AZ | San Manuel | . | . | 1 | . | . | . | . | . | 5 | . | . | 5 |
| 16 | AZ | Yuma | . | . | . | 1 | . | . | . | . | . | 54 | . | 54 |
| 17 | CA | Imperial Valley | . | . | . | 1 | . | . | . | . | . | 92 | . | 92 |
| 18 | CA | Los Angeles-South Coast Air Basin | 1 | 1 | . | 1 | . | . | . | 13,000 | 13,000 | . | 13,000 | 13,000 |
| 19 | CA | Mono Basin (in Mono Co.) | . | . | . | 1 | . | . | . | . | . | 0 | . | 0 |
| 20 | CA | Owens Valley | . | . | . | 1 | . | . | . | . | . | 18 | . | 18 |
| 21 | CA | Sacramento Metro | 1 | . | . | 1 | . | . | . | 1,639 | . | 1,041 | . | 1,639 |
| 22 | CA | San Diego | 1 | . | . | . | . | . | . | 2,498 | . | . | . | 2,498 |
| 23 | CA | San Francisco-Oakland-San Jose | 1 | . | . | . | . | . | . | 5,815 | . | . | . | 5,815 |
| 24 | CA | San Joaquin Valley | 1 | . | . | 1 | . | . | . | 2,742 | . | 2,742 | . | 2,742 |
| 25 | CA | Santa Barbara-Santa Maria-Lompoc | 1 | . | . | . | . | . | . | 370 | . | . | . | 370 |
| 26 | CA | Searles Valley | . | . | . | 1 | . | . | . | . | . | 30 | . | 30 |
| 27 | CA | Southeast Desert Modified AQMA | 1 | . | . | 2 | . | . | . | 384 | . | 349 | . | 384 |
| 28 | CA | Ventura Co. | 1 | . | . | . | . | . | . | 669 | . | . | . | 669 |
| 29 | CO | Aspen | . | . | . | 1 | . | . | . | . | . | 5 | . | 5 |
| 30 | CO | Canon City | . | . | . | 1 | . | . | . | . | . | 12 | . | 12 |
| 31 | CO | Colorado Springs | . | 1 | . | . | . | . | . | 353 | . | . | . | 353 |
| 32 | CO | Denver-Boulder | . | 1 | . | 1 | . | . | . | 1,800 | . | 1,836 | . | 1,836 |
| 33 | CO | Fort Collins | . | 1 | . | . | . | . | . | 106 | . | . | . | 106 |
| 34 | CO | Lamar | . | . | . | 1 | . | . | . | . | . | 8 | . | 8 |
| 35 | CO | Longmont | . | 1 | . | . | . | . | . | 52 | . | . | . | 52 |
| 36 | CO | Pagosa Springs | . | . | . | 1 | . | . | . | . | . | 1 | . | 1 |
| 37 | CO | Steamboat Springs | . | . | . | 1 | . | . | . | . | . | 6 | . | 6 |
| 38 | CO | Telluride | . | . | . | 1 | . | . | . | . | . | 1 | . | 1 |
| 39 | CT | Greater Connecticut | 1 | . | . | 1 | . | . | . | 2,470 | . | 126 | . | 2,470 |
| 40 | DC-MD-VA | Washington | 1 | . | . | . | . | . | . | 3,923 | . | . | . | 3,923 |
| 41 | GA | Atlanta | 1 | . | . | . | . | . | . | 2,653 | . | . | . | 2,653 |
| 42 | GA | Muscogee Co. (Columbus) | . | . | . | . | 1 | . | . | . | . | . | 179 | 179 |
| 43 | GU | Piti Power Plant | . | . | 1 | . | . | . | . | . | 0 | . | . | 0 |
| 44 | GU | Tanguisson Power Plant | . | . | 1 | . | . | . | . | . | 0 | . | . | 0 |
| 45 | ID | Boise | . | . | . | 1 | . | . | . | . | . | 125 | . | 125 |
| 46 | ID | Bonner Co.(Sandpoint) | . | . | . | 1 | . | . | . | . | . | 26 | . | 26 |
| 47 | ID | Pocatello | . | . | . | 1 | . | . | . | . | . | 46 | . | 46 |
| 48 | ID | Shoshone Co. | . | . | . | 2 | . | . | . | . | . | 13 | . | 13 |
| 49 | IL-IN | Chicago-Gary-Lake County | 1 | . | 1 | 3 | . | . | . | 7,887 | . | 475 | 625 | 7,887 |
| 50 | IN | Marion Co. (Indianapolis) | . | . | . | . | 1(e) | . | . | . | . | . | 16 | 16 |
| 51 | KY | Boyd Co. (Ashland) | . | . | 1(f) | . | . | . | . | . | 51 | . | . | 51 |

Table A-17. Condensed Nonattainment Areas List(a) (continued)

| State | Area Name(b) | Pollutant(c) | | | | | Population(d) | | | | | All | |
|-------|--------------|------------------------------------|------|-----------------|------------------|----|-----------------|----------------|--------|-----------------|------------------|-----|--------|
| | | O ₃ | CO | SO ₂ | PM ₁₀ | Pb | NO ₂ | O ₃ | CO | SO ₂ | PM ₁₀ | | Pb |
| 52 | KY | Muhlenberg Co. | . | . | 1 | . | . | . | . | 31 | . | . | 31 |
| 53 | KY-IN | Louisville | 1 | . | . | . | . | 834 | . | . | . | . | 834 |
| 54 | LA | Baton Rouge | 1 | . | . | . | . | 559 | . | . | . | . | 559 |
| 55 | MA | Springfield (W. Mass) | 1 | . | . | . | . | 812 | . | . | . | . | 812 |
| 56 | MA-NH | Boston-Lawrence-Worcester | 1 | . | . | . | . | 5,507 | . | . | . | . | 5,507 |
| 57 | MD | Baltimore | 1 | . | . | . | . | 2,348 | . | . | . | . | 2,348 |
| 58 | MD | Kent and Queen Anne Cos. | 1 | . | . | . | . | 52 | . | . | . | . | 52 |
| 59 | ME | Portland | 1 | . | . | . | . | 441 | . | . | . | . | 441 |
| 60 | MI | Muskegon | 1 | . | . | . | . | 159 | . | . | . | . | 159 |
| 61 | MN | Minneapolis-St. Paul | . | 1 | . | 1 | . | . | 2,310 | . | 272 | . | 2,310 |
| 62 | MN | Olmsted Co. (Rochester) | . | . | 1 | . | . | . | . | 71 | . | . | 71 |
| 63 | MO | Dent | . | . | . | . | 1 | . | . | . | . | 2 | 2 |
| 64 | MO | Liberty-Arcadia | . | . | . | . | 1 | . | . | . | . | 2 | 2 |
| 65 | MO-IL | St. Louis | 1 | . | . | . | 1(g) | 2,390 | . | . | . | 2 | 2,390 |
| 66 | MT | Butte | . | . | . | 1 | . | . | . | . | 33 | . | 33 |
| 67 | MT | Columbia Falls | . | . | . | 1 | . | . | . | . | 2 | . | 2 |
| 68 | MT | Kalispell | . | . | . | 1 | . | . | . | . | 11 | . | 11 |
| 69 | MT | Lame Deer | . | . | . | 1 | . | . | . | . | 0 | . | 0 |
| 70 | MT | Lewis & Clark (E. Helena) | . | . | 1 | . | 1(h) | . | . | 2 | . | 2 | 2 |
| 71 | MT | Libby | . | . | . | 1 | . | . | . | . | 2 | . | 2 |
| 72 | MT | Missoula | . | 1 | . | 1 | . | . | 43 | . | 43 | . | 43 |
| 73 | MT | Polson | . | . | . | 1 | . | . | . | . | 3 | . | 3 |
| 74 | MT | Ronan | . | . | . | 1 | . | . | . | . | 1 | . | 1 |
| 75 | MT | Thompson Falls | . | . | . | 1 | . | . | . | . | 1 | . | 1 |
| 76 | MT | Whitefish | . | . | . | 1 | . | . | . | . | 3 | . | 3 |
| 77 | MT | Yellowstone Co. (Laurel) | . | . | 1 | . | . | . | . | 5 | . | . | 5 |
| 78 | NE | Douglas Co. (Omaha) | . | . | . | . | 1 | . | . | . | . | 1 | 1 |
| 79 | NH | Portsmouth-Dover-Rochester | 1 | . | . | . | . | 183 | . | . | . | . | 183 |
| 80 | NM | Anthony | . | . | . | 1 | . | . | . | . | 1 | . | 1 |
| 81 | NM | Grant Co. | . | . | 1 | . | . | . | . | 27 | . | . | 27 |
| 82 | NM | Sunland Park | 1(j) | . | . | . | . | 8 | . | . | . | . | 8 |
| 83 | NV | Central Steptoe Valley | . | . | 1 | . | . | . | . | 2 | . | . | 2 |
| 84 | NV | Las Vegas | . | 1 | . | 1 | . | . | 258 | . | 741 | . | 741 |
| 85 | NV | Reno | . | 1 | . | 1 | . | . | 134 | . | 254 | . | 254 |
| 86 | NY-NJ-CT | New York-N. New Jersey-Long Island | 1 | 1 | . | 1 | . | 17,943 | 13,155 | . | 1,487 | . | 17,943 |
| 87 | OH | Cleveland-Akron-Lorain | . | . | 3 | 1 | . | . | . | 1,898 | 1,412 | . | 1,898 |
| 88 | OH | Coshocton Co. | . | . | 1 | . | . | . | . | 35 | . | . | 35 |
| 89 | OH | Gallia Co. | . | . | 1 | . | . | . | . | 30 | . | . | 30 |
| 90 | OH | Jefferson Co. (Steubenville) | . | . | 1 | 1 | . | . | . | 80 | 4 | . | 80 |
| 91 | OH | Lucas Co. (Toledo) | . | . | 1 | . | . | . | . | 462 | . | . | 462 |
| 92 | OH-KY | Cincinnati-Hamilton | 1 | . | . | . | . | 1,705 | . | . | . | . | 1,705 |
| 93 | OR | Grants Pass | . | 1 | . | 1 | . | . | 17 | . | 17 | . | 17 |
| 94 | OR | Klamath Falls | . | 1 | . | 1 | . | . | 18 | . | 17 | . | 18 |
| 95 | OR | LaGrande | . | . | . | 1 | . | . | . | . | 11 | . | 11 |
| 96 | OR | Lakeview | . | . | . | 1 | . | . | . | . | 2 | . | 2 |
| 97 | OR | Medford | . | 1 | . | 1 | . | . | 62 | . | 63 | . | 63 |
| 98 | OR | Oakridge | . | . | . | 1 | . | . | . | . | 3 | . | 3 |
| 99 | OR | Springfield-Eugene | . | . | . | 1 | . | . | . | . | 157 | . | 157 |
| 100 | PA | Lancaster | 1 | . | . | . | . | 423 | . | . | . | . | 423 |
| 101 | PA | Pittsburgh-Beaver Valley | 1 | . | 2 | 1 | . | 2,468 | . | 446 | 75 | . | 2,468 |
| 102 | PA | Warren Co | . | . | 2 | . | . | . | . | 22 | . | . | 22 |

Table A-17. Condensed Nonattainment Areas List(a)

| State | Area Name(b) | Pollutant(c) | | | | | Population(d) | | | | | | |
|--------------|---|----------------|-----------|-----------------|------------------|-----------|-----------------|----------------|---------------|-----------------|------------------|--------------|----------------|
| | | O ₃ | CO | SO ₂ | PM ₁₀ | Pb | NO ₂ | O ₃ | CO | SO ₂ | PM ₁₀ | Pb | All |
| 103 | PA-DE-NJ-MD Philadelphia-Wilmington-Trenton | 1 | . | . | . | . | . | 6,010 | . | . | . | . | 6,010 |
| 104 | PA-NJ Allentown-Bethlehem | . | . | 1 | . | . | . | . | 91 | . | . | . | . |
| 105 | PR Guaynabo Co. | . | . | . | 1 | . | . | . | . | . | 85 | . | 85 |
| 106 | RI Providence (all of RI) | 1 | . | . | . | . | . | 1,003 | . | . | . | . | 1,003 |
| 107 | TN Shelby Co. (Memphis) | . | . | . | . | 1(j) | . | . | . | . | . | 826 | 826 |
| 108 | TN Nashville | . | . | . | . | 1(k) | . | . | . | . | . | 81 | 81 |
| 109 | TX Beaumont-Port Arthur | 1 | . | . | . | . | . | 361 | . | . | . | . | 361 |
| 110 | TX Dallas-Fort Worth | 1 | . | . | . | 1(l) | . | 3,561 | . | . | . | 264 | 3,561 |
| 111 | TX El Paso | 1 | 1 | . | 1 | . | . | 592 | 54 | . | 515 | . | 592 |
| 112 | TX Houston-Galveston-Brazoria | 1 | . | . | . | . | . | 3,731 | . | . | . | . | 3,731 |
| 113 | UT Ogden | . | 1 | . | 1 | . | . | . | 63 | . | 63 | . | 63 |
| 114 | UT Salt Lake City | . | . | 1 | 1 | . | . | . | 725 | 725 | . | . | 725 |
| 115 | UT Tooele Co. | . | . | 1 | . | . | . | . | 26 | . | . | . | 26 |
| 116 | UT Utah Co. (Provo) | . | 1 | . | 1 | . | . | . | 85 | . | 263 | . | 263 |
| 117 | WA Olympia-Tumwater-Lacey | . | . | . | 1 | . | . | . | . | . | 63 | . | 63 |
| 118 | WA Seattle-Tacoma | . | . | . | 3 | . | . | . | . | . | 730 | . | 730 |
| 119 | WA Spokane | . | 1 | . | 1 | . | . | . | 279 | . | 177 | . | 279 |
| 120 | WA Wallula | . | . | . | 1 | . | . | . | . | . | 47 | . | 47 |
| 121 | WA Yakima | . | . | . | 1 | . | . | . | . | . | 54 | . | 54 |
| 122 | WI Door Co. | 1 | . | . | . | . | . | 26 | . | . | . | . | 26 |
| 123 | WI Manitowoc Co. | 1 | . | . | . | . | . | 80 | . | . | . | . | 80 |
| 124 | WI Marathon Co. (Wausau) | . | . | 1 | . | . | . | . | 115 | . | . | . | 115 |
| 125 | WI Milwaukee-Racine | 1 | . | . | . | . | . | 1,735 | . | . | . | . | 1,735 |
| 126 | WI Oneida Co. (Rhineland) | . | . | 1 | . | . | . | . | 31 | . | . | . | 31 |
| 127 | WV Follansbee | . | . | . | 1 | . | . | . | . | . | 3 | . | 3 |
| 128 | WV New Manchester Gr. (in Hancock Co) | . | . | 1 | . | . | . | . | 10 | . | . | . | 10 |
| 129 | WV Wier.-Butler-Clay (in Hancock Co) | . | . | 1 | 1 | . | . | . | 25 | 22 | . | . | 25 |
| 130 | WY Sheridan | . | . | . | 1 | . | . | . | . | . | 13 | . | 13 |
| Total | | 38 | 20 | 34 | 77 | 10 | 0 | 99,824 | 34,047 | 4,695 | 29,890 | 1,375 | 113,001 |

Notes:

- (a) This is a simplified listing of Classified Nonattainment areas. Unclassified and Section 185a nonattainment areas are not included. In certain cases, footnotes are used to clarify the areas involved. For example, the lead nonattainment area listed within the Dallas-Fort Worth ozone nonattainment area is in Frisco, Texas, which is not in Dallas county, but is within the designated boundaries of the ozone nonattainment area. Readers interested in more detailed information should use the official Federal Register citation (40 CFR 81).
- (b) Names of nonattainment areas are listed alphabetically within each state. The largest city determines which state is listed first in the case of multiple-city nonattainment areas. When a larger nonattainment area, such as ozone, contains one or more smaller nonattainment areas, such as PM₁₀ or lead, the common name for the larger nonattainment area is used. Note that several smaller nonattainment areas may be inside one larger nonattainment area, as is the case in Figure A-1. For the purpose of this table, these are considered one nonattainment area and are listed on one line. Occasionally, two nonattainment areas may only partially overlap, as in Figure A-2. These are counted as two distinct nonattainment areas and are listed on separate lines.
- (c) The number of nonattainment areas for each of the criteria pollutants is listed.
- (d) Population figures were obtained from 1990 census data. For nonattainment areas defined as only partial counties, population figures for just the nonattainment area were used when these were available. Otherwise, whole county population figures were used. When a larger nonattainment area encompasses a smaller one, double-counting the population in the "All" column is avoided by only counting the population of the larger nonattainment area.
- (e) Lead nonattainment area is a portion of Franklin township, Marion county, Indiana.
- (f) Sulfur dioxide nonattainment area is a portion of Boyd county.

Table A-17. Condensed Nonattainment Areas List(a) (continued)

- (g) Lead nonattainment area is Herculaneum, Missouri in Jefferson county.
- (h) Lead nonattainment area is a portion of Lewis and Clark county, Montana.
- (i) Ozone nonattainment area is a portion of Dona Ana county, New Mexico.
- (j) Lead nonattainment area is a portion of Shelby county, Tennessee.
- (k) Lead nonattainment area is a portion of Williamson county, Tennessee.
- (l) Lead nonattainment area is Frisco, Texas, in Collin county.

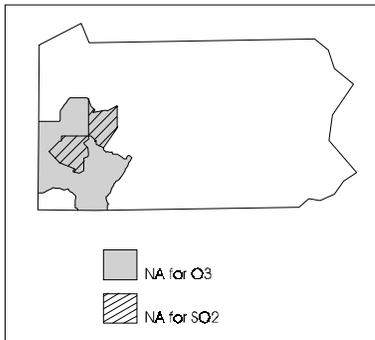


Figure A-1. (Multiple NA areas within a larger NA area) Two SO₂ areas inside the Pittsburgh–Beaver Valley ozone NA. Counted as one NA area.

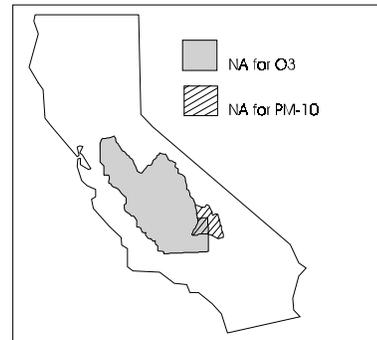


Figure A-2. (Overlapping NA areas) Searles Valley PM₁₀ NA partially overlaps the San Joaquin Valley ozone NA. Counted as two NA areas.